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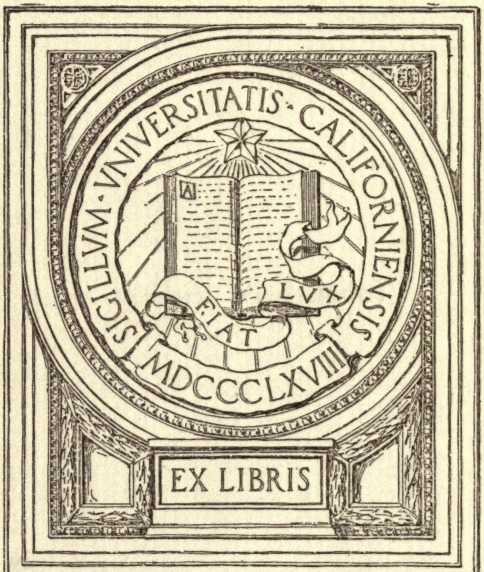

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Vol. ~~IX.~~ 6

U.S. F.S. Quarterly Field Programs

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Issued January 15, 1915.

UNITED STATES DEPARTMENT OF AGRICULTURE.
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1915.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Pecos.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; VERNON METCALF, administrative assistant; CHAS. H. KENDALL, highway engineer (Office of Public Roads).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—J. M. FETHEROLF.

GRAZING.—HOMER E. FENN, assistant district forester.

C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LEON C. HURTT, HOMER S. YOUNGS, FRED D. DOUTHITT, grazing assistants.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; C. G. SMITH, in charge of land classification; W. B. RICE, in charge of entry surveys.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson and S. E. Bower (temporary detail), Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); Herman Work, forest examiner.

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am.)

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); Charles F. Evans, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan and Hubert C. Williams, deputy forest supervisors; W. N. Sparhawk and Lee O. Miles, forest examiners.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah (WU–Am); E. C. Shepard, deputy forest supervisor; Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am); Raymond G. Steele, deputy forest supervisor.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, deputy forest supervisor.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); Carl A. Matteson, deputy forest supervisor; David A. Arrivee, forest examiner.

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor; F. S. Baker and J. C. Roak, forest examiners.

Minidoka.—See Idaho.

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Earl C. Sanford, Raymond D. Garver, and Adolph G. Hauge, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.; C. C. MORRIS, highway engineer (Office of Public Roads).

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Willows (WU–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, San Diego (WU, P–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Kern.—Administered as a part of the Sequoia.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF).

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Arbolado (WU, via Soledad–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–G); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—C. E. RACHFORD, forest supervisor, Santa Barbara (P–WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; JAS. T. SCHUYLER, highway engineer (Office of Public Roads).

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, national forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider, Portland; C. W. Zimmerman, Cornelius Barry, Carl Heinmiller, and Marc Darrin, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Geo. L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, deputy forest supervisor.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox and W. H. Leve, forest examiners.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker and R. E. Smith, forest examiners.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hauzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Alexander G. Jackson and Wm. E. White, forest examiners.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire. Office Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—H. O. STABLER, acting forest supervisor, Hot Springs (WU, P–WF, P); R. C. Huey, deputy forest supervisor.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); Alfred C. Christensen, deputy forest supervisor; C. J. Heller and Robert S. Wallace, forest examiners.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge. Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–So).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham N. H. (WU, P–Am).

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Chief.

BRANCH OF FOREST INSECT INVESTIGATIONS—A. D. HOPKINS, in charge.

FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming, Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington, west of about the 120th meridian. H. E. Burke, in charge.

Tree Seed Insect Station, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds, for the Pacific slope and Rocky Mountains. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge.

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—Edward S. Bryant, forest inspector in charge of private cooperation in forest management.

DISTRICT 1.—Operation: Solomon E. Perlman, St. Joe, forest assistant; George W. Cady, Kaniksu, scaler; James Johnston, jr., Lewis and Clark, assistant forest ranger; Napier Knightlie, draftsman (copyist topographic), district office; Vera L. Chattin, clerk (stenographer and typewriter), district office.

DISTRICT 2.—Operation: Eugenia W. Smith, clerk (stenographer and typewriter), district office; Harriet Mayhew, Uncompahgre, clerk (stenographer and typewriter); Matthew J. Bedall, Montezuma, clerk (forest); Ray M. Bradshaw and Frank F. Poley, Arapaho; Fred R. Thomas, Shoshone, assistant forest rangers. Lands: W. Chester Campbell and Henry C. Langston, surveyors, district office.

DISTRICT 3.—Operation: Thomas Earl Wylder, Apache; J. Clark Owens, jr., Crook; George A. Churchwell, Prescott; Dolph E. Slosser,

Sitgreaves; Leonard R. Lessel, Tonto; Chester V. Christensen, Tusayan, assistant forest rangers; Grace Johnston, Jemez, clerk (typewriter). Lands: Clara E. Wilson, clerk (stenographer and typewriter), district office.

DISTRICT 4.—Operation: Robert B. Haskell, Minidoka, clerk (forest); Naomi A. Dobson, district office; Mrs. Ivy P. Flanery, Cache; Bertha Cook, Uinta, clerks (stenographers and typewriters). Grazing: Bryant S. Martineau, assistant forest ranger, district office.

DISTRICT 5.—Margaret B. Fulham, Sierra, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: George T. McCaskie, Siuslaw, assistant forest ranger. Products: Marc Darrin, assistant chemist in forest products, district office.

PROMOTED IN RANK.

DISTRICT 1.—Operation: Talmage E. Miller, Blackfeet, forest assistant to deputy forest supervisor; Magnus J. Durant, Clearwater, assistant forest ranger to forest ranger; James W. Girard and Clyde E. Knouf, scalers to lumbermen, district office.

DISTRICT 2.—Operation: John W. Evans, Medicine Bow; Benj. I. Beaty, Sopris, assistant forest rangers to forest rangers.

DISTRICT 3.—Operation: Ernest T. F. Wohlenberg, district office; Carl B. Scholefield, Coronado; Howard A. Thrall, Gila; Albert J. Connell, Jemez, assistant forest rangers to forest rangers.

DISTRICT 5.—Roy L. Walkup, California; Charles Kollman, Lassen; Frank Price, Sierra, assistant forest rangers to forest rangers; Chester E. Jordan, Sierra, forest ranger to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—District office: John B. Somers, national forest examiner to forest examiner.

DISTRICT 3.—Operation: Murrell W. Talbot, Coconino; Serrin S. Van Boskirk, Pecos, forest assistants to assistant forest rangers.

DISTRICT 4.—Grazing: Clarence N. Woods, forest supervisor to grazing inspector.

RESIGNED.

EDITOR.—Bristow Adams, forest examiner.

SILVICULTURE.—Barrington Moore, forest examiner.

PRODUCTS.—Laboratory: Wm. H. Kempfer, forest examiner.

ACQUISITION.—Max McCullough, Burleigh R. Downey, Ray D. Barnes, Francis C. Hall, and Dow G. Beck, transitmen; Philip T. Coolidge, forest examiner.

DISTRICT 1.—Operation: William W. Morris, Coeur d'Alene, forest examiner; William Vincent Evans, Absaroka; Raymond J. Smith, Coeur d'Alene; Henry R. Snider, Clearwater; Frederick W. Schumacher, Beaverhead; Clarence N. Lawrence and Charles E. Marshall, Kootenai; Joseph McGhee, Selway, assistant forest rangers; Margaret W. Grinnan, St. Joe, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Sue Trainor, Leadville, clerk; John T. Morgan, Pike, clerk (stenographer and typewriter); Norman S. Ashlock, Sopris, forest ranger; Wm. M. Leahy, Arapaho; James L. Warner, Bighorn, assistant forest rangers.

DISTRICT 3.—Operation: Wilson R. McNeil, messenger, district office; Winfield S. Day, Datil; Harry C. Viles, Pecos, forest rangers; Albert N. Bailey, Alamo, assistant forest ranger. Lands: Hugh M. Neighbour, transitman, district office.

DISTRICT 4.—Operation: George S. Butler, Palisade; Henry D. Gerrish, Challis; Arthur N. Howard, Sawtooth; Sidney A. Hanks, Targhee, assistant forest rangers; Sylva B. Blackburn, district office; Mrs. Hilda E. Graff, Idaho, clerks (stenographers and typewriters).

DISTRICT 5.—Horatio N. Ormsbee, logging engineer, district office; Clarence Ruff, California; Robert H. Logan, Inyo, forest rangers; James A. Brown, Cleveland; Ben L. Johnson, Cleveland, assistant forest rangers; Shirley W. Allen, Lassen, deputy forest supervisor.

DISTRICT 6.—Operation: Harry M. Cunningham, Rainier, assistant forest ranger; William B. Milbury, Siskiyou, forest ranger.

SUSPENDED.

DISTRICT 3.—Operation: William A. Stuart, Chiricahua, forest ranger.

DISMISSED.

ACQUISITION.—Samuel L. Childs, examiner of surveys.

DISTRICT 4.—Operation: James E. Jewell, Wyoming, forest supervisor.

DISTRICT 7.—S. A. Chappell, Arkansas, forest supervisor.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1914, which will be issued in April, 1915, is allotted to the Forest

Service for its members. Copies will be supplied as in former years to District Foresters and Supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed, and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Chicago, Milwaukee & St. Paul Railway Co.: On November 2, 1914, the United States Circuit Court of Appeals at San Francisco handed down an opinion requiring the railway company to sign a stipulation to cross the Coeur d'Alene Forest and to pay damages for timber cut, burned, etc., in the aggregate of $68,489. This opinion affirms the opinion rendered by the District Court of Idaho.

United States *v.* Homer Hodges: Occupancy trespass, Deerlodge National Forest. On November 13, 1914, the district court for Montana rendered a decision in favor of the United States requiring Hodges to vacate the Pioneer ranger station. The station, which is outside of the National Forest, was withdrawn in 1908 by the Interior Department. Hodges contended that the withdrawal was invalid. The court, however, held otherwise.

United States *v.* Milwaukee Lumber Co.: Timber trespass, St. Joe National Forest. Injunction proceedings dismissed and bond released by the United States, the classification of the land involved showing it to be nonmineral and the property of the Northern Pacific Railway Co.

United States *v.* W. W. Ferrell: Occupancy trespass, St. Joe National Forest. Temporary injunction issued February 9, 1913. On November 14, 1914, case dismissed without prejudice by the United States.

United States *v.* Great Northern Railway Co., Winston Bros., and C. C. Werdenhoff: Fire trespass, Flathead and Lewis and Clark National Forests. On October 31 complaint filed in Federal court at Butte asking for $223,853.08 damages for fire started by the defendants upon the right of way of the Great Northern Railway Co. within the Flathead and Lewis and Clark National Forests during July, 1910.

United States *v.* Charley Niel: Grazing trespass, criminal, Beaverhead National Forest. Violation of regulations. On October 24 Niel plead guilty to the information filed against him and was fined $25 and additional costs of $31.70. Fine and costs were paid.

United States *v.* Glenn Gould: Timber trespass, civil, Jefferson National Forest. Case settled upon payment of $28.70, value of timber cut.

United States *v.* Levi A. Shelton: Timber trespass, civil, Jefferson National Forest. Case settled upon payment of $13.69, value of timber cut.

United States *v.* Charles Spieth: Timber trespass, civil, Jefferson National Forest. Case settled upon payment of $13.10, value of timber cut.

United States *v.* John Carter: Timber trespass, civil, Coeur d'Alene National Forest. Case settled upon payment of $106.52, value of timber cut.

Law Cases in District 2—

United States *v.* Frank L. Hudson and Tim Barrett: Grazing trespass, Washakie National Forest. On December 17, 1914, consent judgment was entered in the United States District Court for the District of Wyoming in favor of the Government in the sum of $18.88 compensatory damages and $50 exemplary damages and costs.

United States *v.* Frank L. Hudson and Felix Wilson: Grazing trespass, Washakie National Forest. On December 17, 1914, consent judgment was entered in the United States District Court for the District of Wyoming in favor of the Government in the sum of $4 compensatory damages and $50 exemplary damages and costs.

United States *v.* William H. McKinley: Grazing trespass, Montezuma National Forest. October 19, 1914, an order was secured from the United States District Court for Colorado to take default judgment against the defendant.

United States *v.* Joseph H. McNealey: Grazing trespass (criminal), Medicine Bow National Forest. The defendant was found guilty by a jury in the United States District Court for the District of Wyoming and was sentenced to pay a fine of $100 and costs.

United States *v.* J. H. McNealey: Grazing trespass, Medicine Bow National Forest. December 19 McNealey deposited with the United States Attorney $15 in full settlement of a grazing trespass committed by him in 1913 on the Medicine Bow National Forest.

United States *v.* Henrylyn Irrigation District et al.: Occupancy trespass, Pike National Forest. September 30, 1914, defendants' motion to strike certain portions of the Government's bill was granted by the court, and the defendants were ordered to answer, which answer was filed December 11, 1914.

United States *v.* Alice M. Ennis: Involving title to lands in the Harney National Forest. On December 9, 1914, Alice M. Ennis and Charles Ennis, her husband, executed and delivered to the United States a quitclaim deed to 80 acres of land to which patent had issued by mistake. The particular land in question had been reconveyed to the United States under the lieu-selection provision of the act of June 4, 1897, and lieu lands patented to the claimant in lieu of that relinquished. A patent, however, issued to Alice Ennis for the land reconveyed and was recorded and a quitclaim deed was secured for the purpose of clearing the cloud upon the Government's title thereto.

United States *v.* Detroit & Mackinac Railway Co.: Fire trespass, Michigan National Forest. On November 30. 1914, the defendants deposited with the clerk of the court $122.92 in payment of the Government's claim against the railroad for a fire caused in June, 1913, by sparks from the company's engine.

United States *v.* W. O. Dutton: Grazing trespass, San Juan National Forest. Settled by payment of $8.82, full amount of damages claimed.

United States *v.* Fred Miller, Receiver for the Laramie, Hahns Peak & Pacific Railroad Co.: Fire trespass, Medicine Bow National Forest. In November, 1914, the receiver deposited the sum of $195 in settlement of this case, which compromise offer had been previously accepted and approved by the Secretary of the Treasury.

United States *v.* M. J. Pearson: Timber trespass, Arapaho National Forest. Owing to the fact that the defendant could not be located the suit filed in this case in 1912 was dismissed upon motion of the United States attorney for the district of Colorado.

Law Cases in District 3—

In the grazing trespass case against F. E. Sanchez, Lincoln, the defendant was fined $50 and costs amounting to $23.70. The fine and costs were paid.

In the case of Cameron *v.* Bass (Tusayan) the Superior Court of Coconino County, Ariz., held in effect that the Interior Department has authority to annul a mining location, at least in patent proceedings. In this case the claimant of a location heretofore adjudged invalid by the Interior Department in patent proceedings, is attempting to enjoin a special use permittee from erecting improvements on the area formerly embraced in the location, and at the request of this department the United States attorney is defending the permittee.

Law Cases in District 4—

United States *v.* Ecequiel Saunegui: Grazing trespass on the Pocatello National Forest, called for trial in the United States court at Pocatello, Idaho, October 15, 1914. Defendant failed to appear. Bond in the sum of $250 ordered forfeited.

United States *v.* Barnardeno Oleachea, found guilty in United States district court at Pocatello, Idaho, on October 15, 1914, of grazing trespass on the Pocatello National Forest. Fined $50 and costs, which was paid.

United States *v.* John J. Stocking: Unlawful fence trespass. Trial October 17, 1914, in United States district court at Pocatello, Idaho. Jury disagreed.

United States *v.* Ralph Call: Grazing trespass, Boise National Forest. Suit filed to recover actual and punitive damages for trespass on area reserved for water supply.

United States *v.* Pedro Erro: Grazing trespass on the Ruby National Forest. Actual and punitive damages paid December 14, 1914.

United States *v.* L. C. Brinkerhoff: Grazing trespass, Powell National Forest. Actual damages paid.

Law Cases in District 5—

The Pacific Gas & Electric Co. settled a timber trespass on the Eldorado National Forest by the payment of $728.89. This was full settlement on an innocent basis.

The California White Pine Lumber Co. settled a timber trespass on the Plumas National Forest by the payment of $129.39.

O. H. Wiemcke settled a timber trespass on the Plumas National Forest by the payment of $200.79.

Law Case in District 6—

The case of the United States *v.* Jas. T. Steen, involving grazing trespass on the Wallowa National Forest, was tried in the United States District Court for Oregon on December 7, resulting in a verdict for the Government of $83.21 and costs $317.89.

LANDS.

Application Form 253 A, etc.—Revised February 20, 1914—

Attention of Forest officers is called to the fact that the Washington Office has received many applications on new Form 253 where there has been neglect on the part of the applicant to remove the second page containing the law and regulation, the form being perforated for that purpose. The object of the arrangement was not only that the applicant might have a copy of the law but to relieve the files in the district office. Hereafter Forest officers should see that the second sheet of the application is removed when filed by the applicant; and where not removed by him, it should be detached and sent to him.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 139.—Norway Pine in the Lake States.

Farmers' Bulletin 622.—Basket Willow Culture.

Unnumbered Publication.—Instructions for Appraising Stumpage on National Forests.

Reprint, Journal of Agricultural Research.—Density of Wood Substance and Porosity of Wood.

Reprint, Journal of Agricultural Research.—Natural Revegetation of Range Lands Based upon Growth Requirements and Life History of the Vegetation.

Report of the Forester, 1914.

Folder for Pecos National Forest.

Folder for Eldorado National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JANUARY, 1915.)

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Agricultural Yearbook; January (83).
Alterations made in accounts during administrative examination; July (25–26).
Application Form 253 A, etc.—Revised February 20, 1914; January (87).
Appointments; October (57).
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Numbering supplemental lists; October (58).
Service Order 43; July (25).
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5; July (28); January (87).
6; July (29).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 191

No. 1. Issued April 15, 1915.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1915.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Inspection—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester. Roscommon, Mich.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, Geo. de S. Canavarro, C. H. Shinn, C. E. Clement.

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GRAZING STUDIES (in copoperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.
Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.
William R. Chapline, grazing assistant, Ephraim, Utah.

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Review of results.—FRANK J. HALLAUER.
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PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Fleming.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, acting in charge, Washington, D. C. Correlation of Lumber Grades and Consumers' Specifications, acting chief and members assigned to related projects. Study of a Universal Grading Rule for Lumber, F. J. Hallauer, Madison, Wis. Departmental Cooperation, Inspection and Revision of Government Specifications, J. C. Nellis and R. K. Helphenstine, jr., Washington, D. C. District 7, Products, J. T. Harris, Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Tight-cooperage Investigations, J. T. Harris, Washington, D. C. Box Industry Investigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determine Improved Grading and Inspection Systems (in cooperation with yellow pine associations), W. D. Brush, C. W. Gould, D. G. White, Washington, D. C. Factory Waste Utilization, R. K. Helphenstine, Jr., Washington, D. C. Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Consumption of Wood Preservatives, C. W. Gould, Washington, D. C. Woodlot Utilization, S. L. Wolfe, Washington, D. C. Collaborators, Hu Maxwell, Chicago, Ill.; A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; George E. Marshall, Washington, D. C.

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NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—MEYER H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Richard C. Eggleston, forest examiners.

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Cabinet.—Claude W. Griffin, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—George E. Martin, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—Lewis C. Stockdale, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and A. B. Hastings, forest examiners.

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Gallatin.—Ralph E. Bodley, acting forest supervisor, Bozeman (WU–Am, N); Arthur H. Abbott, deputy forest supervisor.

Helena.—J. B. Seely, forest supervisor, Helena (WU–Am, N).

Jefferson.—Scott Leavitt, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

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Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—Arthur C. Haines, acting forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—Arthur C. Haines, acting forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

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A. E. PALEN, highway engineer (Office of Public Roads).

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STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Hot Sulphur Springs (WU–Ad); Arthur T. Upson, forest examiner.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF, G); John W. Spencer, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–G).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF); Huber C. Hilton, forest examiner.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU–G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF, G).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, G); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF, G); J. E. Martin, forest examiner.

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San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–G); A. F. C. Hoffman, forest examiner.

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KANSAS.

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MICHIGAN.

Marquette. **Michigan.**—W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad); Halsey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—E. N. KAVANAGH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor.

Bonneville.—C. G. POOLE, forest supervisor, Lander (WU–Am).

Bridger.————, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); D. S. Jeffers, deputy forest supervisor.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Sundance.—PAUL D. KELLETER, forest supervisor, Deadwood, S. Dak. (WU–Ad, Am).

Washakie (Eastern Division).—C. G. POOLE, forest supervisor, Lander (WU–Am); Michael J. Sweeney, forest examiner.

Washakie (Western Division).————, forest supervisor, Pinedale (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; PAUL P. PITCHLYNN, geography; HOWARD B. WAHA, national forest examiner; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction.

O. N. POWELL, highway engineer (Office of Public Roads).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—JOSEPH C. KIRCHER, forest examiner, acting in charge; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies: A. J. JAENICKE, forest assistant.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; ALDO LEOPOLD, forest supervisor (detail).

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, surveyor, Coronado; R. P. A. JOHNSON, surveyor, Prescott; C. A. LONG, surveyor, Chiricahua; LEE C. DAVES, surveyor, Gila.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF); Clifford W. McKibbin, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); Robert L. Deering, deputy forest supervisor.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Jemez.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner.

Lincoln.—J. H. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Pecos.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; VERNON METCALF, administrative assistant.

CHAS. H. KENDALL, highway engineer (Office of Public Roads).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—O. M. BUTLER, assistant district forester; JAMES M. FETHEROLF, forest examiner, acting in charge; D. F. SEERY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—JAMES M. FETHEROLF.

GRAZING.—HOMER E. FENN, assistant district forester.

C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LEON C. HURTT, FRED D. DOUTHITT, grazing assistants.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson and S. E. Bower (temporary detail), Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); Herman Work, forest examiner.

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am.)

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am); Charles F. Evans, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan and Hubert C. Williams, deputy forest supervisors; W. N. Sparhawk and Lee O. Miles, forest examiners.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah (WU–Am); E. C. Shepard, deputy forest supervisor; Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am); Raymond G. Steele, deputy forest supervisor.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU–Am); E. C. Shepard, deputy forest supervisor.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); Carl A. Mattesson, deputy forest supervisor; David A. Arrivee, forest examiner.

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor; F. S. Baker and J. C. Roak, forest examiners.

Minidoka.—See Idaho.

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Earl C. Sanford, Raymond D. Garver, and Adolph G. Hauge, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am); H. B. Maris, forest examiner.

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads).

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.— ———, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

California.—M. A. BENEDICT, forest supervisor, Willows (WU-WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, Escondido (WU-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—Administered as a part of the Sequoia.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); Hamilton G. Merrill, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Big Sur (WU via Soledad–WF, Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–G); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—C. E. RACHFORD, forest supervisor, Santa Barbara (P–WF); W. M. Moore, forest examiner.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF, Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Omce of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

JAS. T. SCHUYLER, highway engineer (Office of Public Roads).

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; AUSTIN CARY, logging engineer, assigned to district 6, in charge of investigation of lumber industry; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; GEO. A. BRIGHT, forest examiner.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—G. F. MEAD; W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT and T. M. TALBOT.

USES AND STATIONS.—F. A. LAW, Jr.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—A. H. HODGSON.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider, Portland; C. W. Zimmerman, Cornelius Barry, Carl Heinmiller, and Marc Darrin, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Supervisors only.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T–GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, deputy forest supervisor.

Paulina.—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox and W. H. Leve, forest examiners.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Heppner (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker and R. E. Smith, forest examiners.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Alexander G. Jackson and Wm. E. White, forest examiners.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, acting forest supervisor, Hot Springs (WU, P–WF, P).

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); Alfred C. Christensen, deputy forest supervisor; C. J. Heller and Robert S. Wallace, forest examiners.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU–WF).

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–So).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—State Cooperation: Fred W. Besley, collaborator.

DISTRICT 1.—Operation: Forrest Sherrill, Lolo, assistant forest ranger; Esther Clare Phillips, Coeur d'Alene, clerk (stenographer and typewriter). District office: William F. Simons, assistant forest ranger, Planting; Hulda Reed, clerk (stenographer and typewriting), Lands; G. H. Stadler, surveyor-draftsman, Geography.

DISTRICT 2.—Operation: Flora H. Nelson, Harney, clerk (stenographer and typewriter); Joseph M. Russell, Pike, clerk; Robert F. Evans, Black Hills; Charles L. Dickson, San Isabel.

DISTRICT 3.—Operation: William L. Brett, Datil; William W. Lloyd, Prescott, forest clerks. District office: Paul J. Kiefer, blue printer; John Spaerer, draftsman (copyist, topographic).

DISTRICT 4.—Operation: Julius W. Kroger, Nevada, clerk (forest); Frank H. Miller, Payette; Harry W. Naylor, Humboldt, assistant forest rangers.

DISTRICT 6.—Philip H. Dater, hydroelectrical engineer, district office.

PROMOTED IN RANK.

DISTRICT 1.—Operation: Fred W. Beier, St. Joe, assistant forest ranger to forest ranger.

DISTRICT 2.—Grazing: Jesse W. Nelson, assistant district forester to inspector of grazing, Washington, D. C. District office: W. I. Hutchinson, forest examiner to forest supervisor. F. L. W. Grubb, Durango; Theodore Shoemaker, Harney; Ray R. Clarke, Pike, assistant forest rangers to forest rangers.

DISTRICT 3.—Operation: Clifford E. Hulbert, Carson; Paul E. Millar, Tusayan, assistant forest rangers to forest rangers.

DISTRICT 4.—Lands: Raymond E. Gery, clerk to national forest examiner. Operation: Charles A. Beam, Wyoming, deputy forest supervisor to forest supervisor; Carl A. Mattesson, Fishlake, forest ranger to deputy forest supervisor; James A. Wholey, Toiyabe, assistant forest ranger to forest ranger.

DISTRICT 5.—Albert W. Bramhall, Lassen; Marion J. Brown, Inyo, assistant forest rangers to forest rangers; Wilfred Arthur Robison, Sequoia, clerk (stenographer and typewriter) to forest clerk.

CHANGE IN DESIGNATION.

SILVICULTURE.—Earle H. Clapp, forest inspector to assistant forester.

GRAZING.—Will C. Barnes, inspector of grazing to assistant forester.

LANDS.—Edward A. Sherman, forest inspector to assistant forester.

DISTRICT 2.—Operation: Charles Steuart, Black Hills; Thos. V. Keefe, Sopris, forest assistants to assistant forest rangers.

DISTRICT 3.—Operation: Lenthall Wyman, Alamo, forest assistant to assistant forest ranger.

DISTRICT 4.—District Forester: Leon F. Kneipp, assistant forester, Washington office, to district forester, District 4.

DISTRICT 6.—Silviculture: Chas. S. Judd, assistant district forester to forest examiner, district office.

RESIGNED.

PRODUCTS.—Laboratory: Lester E. Cover, assistant chemist in forest products; Otto E. Weber, paper and pulp engineer. Industrial Investigations: O. T. Swan, engineer in forest products; Chas. A. Scott, forest assistant.

DISTRICT 1.—Operation: Edward H. O'Brien, St. Joe, scaler; William C. McCormick, Blackfeet, forest ranger; Frank G. Pierce, Bear-

tooth; Harvey Fearn, Coeur d'Alene; Ralph T. Abbott, Custer; Ralph E. Sheriff, Dakota; Lloyd A. Fenn, Flathead; Harry C. Hockett, Lolo, assistant forest rangers.

DISTRICT 2.—Silviculture: Jos. H. Potts, forest examiner, district office. Operation: H. S. Bushnell, Uncompahgre, forest supervisor; Abbott C. Read, Leadville, clerk (forest); Howard R. Flint, Bonneville; Kenneth J. Braden, Medicine Bow, forest assistants; Bert B. Morton, Bighorn; Truman O. Foley, Uncompahgre; Frank H. Wagner, San Isabel; William E. Whitten, Cochetopa, forest rangers; Walter Osborn, Black Hills; John N. Million, Rio Grande; Hugh B. Livingston, Shoshone, assistant forest rangers.

DISTRICT 3.—Operation: Robert B. Ewing, messenger, district office; Jerry J. Fisher, Coconino, forest ranger; D. Delmar Douglas, Jemez; Greta Herrick, Prescott, clerks (stenographers and typewriters); John C. Parent, Tonto, assistant forest ranger; A. B. Recknagel, Theodore S. Woolsey, jr., assistant district foresters, district office.

DISTRICT 4.—Operation: William A. Smith, Payette, forest examiner; Edward C. Bagley, Fishlake, forest ranger; Dewey J. Hesner, Lemhi; Nicholas S. Phelan, Weiser; William A. Louderbough, Payette; Ernest S. Edgerton, Wyoming; Sidney A. Hanks, Targhee, assistant forest rangers.

DISTRICT 5.—Regina S. Emmerich, clerk (stenographer and typewriter), district office; Charles Kollman, Lassen; Robert H. Logan, Inyo, forest rangers; Clarence Wyatt, Mono, assistant forest ranger.

DISTRICT 6.—Geo. W. Peavy, forest examiner, district office. Operation: O. E. Haring, draftsman (copyist, topographic), district office; Annie D. O'Brien, Crater; Stella M. Yarrow, Siuslaw, clerks

SUSPENDED.

DISTRICT 3.—Operation: Murray Averett, Chiricahua, forest ranger.

DISMISSED.

DISTRICT 1.—Operation: John T. Siders, St. Joe, assistant forest ranger.

DISTRICT 4.—Operation: Warren E. Cook, Idaho, forest ranger.

DISTRICT 7.—Gerald J. Hiett, Arkansas, assistant forest ranger.

With deep regret announcement is made of the death of Elza E. Poynter, forest ranger, Jemez, February 7; Mattie F. Rule, clerk, district office, District 6, February 24; H. C. Hall, forest supervisor, Bridger, April 2; and George Y. Baker, forest assistant, Snoqualmie, April 15.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 44.

Distribution of the Loose-Leaf Manual—

The following instructions are issued for the guidance of forest officers concerning the distribution of the loose-leaf Manual:

The limited edition of the Manual makes necessary the exercise of care in its distribution. Copies for use outside the Forest Service will be issued only by the Forester, to Government or State officials whose duties in connection with Forest Service work make it necessary to supply them with the Manual, and to colleges and universities which have professional forest schools or ranger schools that train men for the Government service. Institutions receiving the Manual will be expected to provide themselves, at their own expense, with binders.

Binders with full copies of the Manual will be furnished to individual members of the Washington and district offices upon requisition by chiefs of branch and district foresters, and to each Forest on requisition by the supervisor in such numbers as his actual administrative needs may make necessary. The binders will be considered for the present and until further instructions as nonexpendable property and will be accounted for to the property auditor in accordance with the regulations covering such property.

All men who require, for the efficient discharge of their duties, that they have copies of the Manual should be equipped with them, and only such men. The fact that the binders are nonexpendable property will insure special care in supplying copies to any temporary men who may need to be equipped with the Manual, preventing indiscriminate distribution and insuring return of all copies when the employment terminates.

As new copies are required on individual Forests in the six western districts because of increases in the number of officers needing to be equipped with the Manual, the necessary copies should be requisitioned from the Ogden Supply Depot.

As new leaves are issued there will be sent by the Ogden property clerk to each Forest in the six western districts, a number equal to the number of copies of the Manual charged to the supervisor, and to each district forester the number needed by members of his office individually charged with copies. Forest officers in District 7 and members of the

Washington office and District 7 office will be supplied from Washington.

The plan heretofore followed in furnishing copies of the Manual to individuals or associations cooperating with the Forest Service, such as advisory boards of stock associations and other similar organizations, is discontinued. Many of the instructions contained in the Manual relate entirely to matters of administration and official action which unless carefully studied are liable to misinterpretation.

A revised edition of the public Use Book is being prepared and this will contain all the regulations and such parts of the instructions as are necessary for the public to understand policies of the Forest Service and the principles governing the administration of the National Forests, and copies of it will be furnished all such individuals and associations applying for them.

There is no objection, however, to forest officers allowing individuals to look over their copy of the Manual, as there is nothing contained therein that is considered as confidential or which the general public should not see, provided the book does not pass from the possession of the forest officer to whom it belongs.

FORESTER.

Establishment of the Branch of Research—

In conformity with Memorandum No. 121 of the Secretary of Agriculture, a Branch of Research will be established in the Forest Service within the next two months. Its purpose is to bring together under one executive direction as many of the various lines of research or investigative work conducted by the Forest Service as practicable. Correlation between the various kinds of investigative work has been secured effectively during the past three years by the central and district investigative committees. Carrying this correlation a step farther, it now seems advisable to place most of the lines of research under the direction of a member of the Forester's staff who can give his entire time to these duties.

The work of the new branch will include all of the silvicultural investigations conducted by the Forest Service; the development of private forestry in the Eastern States; the Forest Products Laboratory at Madison, Wis.; the industrial and utilization investigations in forest products conducted at Washington and at various district headquarters; and the other economic investigations of the Service, such as the study of the lumber industry now in progress and studies of lumbering costs and methods, markets, etc., in connection with the administration of the National Forests. The grazing studies will remain under the Branch of Grazing and will be handled in correlation with the other studies.

While thus seeking to bring together the investigative work of the Service more effectively, it is essential to retain the intimate relation-

snip between investigative and administrative work which has hitherto existed. This will not be broken up in any way. The work of the Branch of Research will be conducted through the district offices and field organization in the same manner as that of other branches. Procedure under the new branch will be organized so as to insure the participation of all of the administrative branches in their related lines of research to as full an extent as at the present time; and a special effort will be made to adapt the researches undertaken as closely as possible to the current administrative needs of the Service.

It is the purpose of this change to develop and strengthen research work as a coordinate division of the Forest Service, and to give the research work and personnel the fullest possible recognition. A service order establishing the new branch and indicating more fully the procedure and relationships affecting it will be issued in the near future.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* A. Boulais: Timber trespass, civil, Pend Oreille National Forest. Settled by payment of $437.58, value of timber cut.

United States *v.* Eli Dobrota: Fire trespass, criminal, Missoula National Forest. Information prepared and forwarded to United States Attorney, who filed same in the Federal Court January 15, 1915. Dobrota arraigned January 26, entering a plea of not guilty.

United States *v.* O. J. Langhus: Grazing trespass, civil, Absaroka National Forest. Closed upon payment of $10.30, value of forage consumed.

United States *v.* Hans Pederson: Grazing trespass, civil, Beaverhead National Forest. Settled by payment of $46.73, value of forage consumed.

United States *v.* Ben Romney, Bill Sanderson, Cliff Rader, and John Doe Samuels: Occupancy trespass, criminal, Absaroka National Forest. March 12, 1915, complaint sworn out before United States commissioner at Livingston, Mont., charging these men with stealing Government property.

United States *v.* Frank Schulz: Grazing trespass, civil, Beaverhead National Forest. Settled by payment of $33.53, value of forage consumed.

Law Cases in District 2—

United States *v.* W. R. Sanborn: Occupancy trespass, Pike National Forest. Settled by payment of $34.46, the amount of damages involved.

United States *v.* J. H. McNealey: Grazing trespass, Medicine Bow National Forest. Settled by payment of $17, the amount of damages involved.

United States *v.* W. H. McKinley: Grazing trespass, Montezuma National Forest. Tried March 26, 1915. Judgment for $300 and costs returned by jury.

Law Cases in District 3—

United States *v.* S. J. Willburn: Grazing trespass, Alamo National Forest. Settled by payment of $30 actual and $20 punitive damages.

United States *v.* E. R. Chambers: Grazing trespass, San Juan National Forest (District 2). Defendant's offer to settle by payment of actual damages, $17.27, and accrued costs, $76.20, accepted.

United States *v.* Eugene Joy: Grazing trespass, Alamo National Forest. Judgment for $36 and $68.30 costs satisfied.

United States *v.* Julian Martinez: Grazing trespass, Tusayan National Forest. Defendant fined $25 and costs; fine and costs paid.

United States *v.* A. B. Kellogg and Ralph E. Estabrook: Grazing trespass, Prescott National Forest. Judgment March 4, 1915, for $1,000 and costs, $111.30.

Law Cases in District 4—

United States *v.* Utah Power & Light Co. (390).
United States *v.* Utah Power & Light Co. (394).
United States *v.* Beaver River Power Co. (399).
United States *v.* L. L. Nunn (421).

The above cases, involving occupancy trespass, came on for hearing on bill and answer before Judge Marshall in the United States District Court at Salt Lake City on February 15. The Government's prayers for injunctions were granted, and the defendants were allowed 90 days in which to perfect appeals to the Supreme Court.

United States *v.* John J. Stocking: Defendant found guilty in the United States District Court at Pocatello, Idaho, of maintaining an unlawful fence. Fine, $250 and costs.

United States *v.* Henry A. Bergh: This was a case begun against Henry A. Bergh, former supervisor of the La Sal National Forest, by information under section 106 of the Criminal Code, charging the making of false certificates in connection with the expenditure of public funds, whereby sums allotted or expended for one purpose were charged to other items. Defendant pleaded guilty in the United States District Court at Salt Lake City on February 23 on three counts. By reason of extenuating circumstances, the court made his punishment a fine of $20 on each of the three counts.

Law Cases in District 6—

United States *v.* J. L. Mulder, C. Rathmen and G. Edson: Fire trespass. Information was filed against these defendants on January 22, 1915, and on January 27 they appeared in court, and upon a plea of guilty were each sentenced to pay a fine of $25 and the

costs of prosecution, amounting to $29.48, making a total of $104.48, which was paid.

United States *v.* Gold Basin Lumber & Shingle Co.: This case was referred to the Department of Justice for the institution of suit to collect $1,828.23 on account of breach of contract entered into by United States and Gold Basin Lumber & Shingle Co., but was settled without suit on the payment of $233.90, the actual amount found to be due, and the company was given until August 1, 1915, to remove the remainder of the timber.

United States *v.* Chas. W. Mock: On March 23, 1915, the Federal grand jury at Seattle, Wash., returned an indictment against Mock, under section 32 of the Penal Code, for falsely assuming or pretending to be a forest officer and thereby obtaining money from various persons. Mock was at one time a forest guard on the Washington National Forest and retained some articles which assisted him in his personation of a forest official. The date for trial has not been fixed.

OPERATION.

Leave Regulations—

The revised National Forest Manual did not continue the authority hitherto given to supervisors to grant to forest officers leave of absence without pay for periods not exceeding 30 days. Special authority has been received from the Secretary of Agriculture empowering the supervisors to grant all forms of leave, with the limitations stated below. The first amendment to the Manual will include the following paragraph, to be inserted between the first and third paragraphs, under the heading "Leave of absence," at the top of page 11–A of the new Manual:

> Annual and sick leave within the legal limit may be granted by the supervisor to forest officers. Leave of absence without pay may also be granted for periods not exceeding 30 days by the supervisor to forest officers at their own request when the public business will not suffer by the absence and when reasonable cause is shown, such as important personal business or emergencies of a serious nature. Leave without pay for more than 30 days will be granted only by the Secretary of Agriculture. The formal recommendation should state the nature of the business or emergency necessitating the absence.

Use of Penalty Envelopes—

Attention has been called to the fact that the instructions under "Purchase of barbed wire," on page 39–A of the Manual, state as follows: "An addressed franked envelope should always be included with orders." Since this is in conflict with paragraph 104 of the "Administrative regulations," amended by Secretary's memorandum No. 117, the instructions should be disregarded in future. The first amendment to the Manual will include instructions to strike out this sentence.

LANDS.

Inclosures for Timber Operators—

In accordance with the spirit of paragraph K, Reg. L–32, free permits for inclosures may be given to purchasers of National Forest timber when the inclosures are to be used in caring for stock used in the timber operations.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 152.—The Eastern Hemlock.

Department Bulletin 153.—Forest Planting in the Eastern United States.

Department Bulletin 154.—Life History of Lodgepole Pine in the Rocky Mountains.

Unnumbered publication.—Instructions for the Scaling and Measurement of National Forest Timber.

CUMULATVE INDEX TO SERVICE NOTES AND ORDERS.

[April, 1915.]

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Application Form 253 A, etc.—Revised February 20, 1914; January (87).
Appointments; October (57).
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Establishment of the Branch of Research; April (112–113).
Inclosures for timber operators; April (116).
Leave regulations; April (115).
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6; July (28–29).
timber, district 1; July (27); January (84–85); April (113).
2; July (27); January (86).
5; July (28); January (87).
6; July (29).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1915

No. 2. Issued July 15, 1915.

PROPERTY OF DIVISION OF
COLLEGE OF AGRICULTURE
UNIVERSITY OF CALIFORNIA

UNITED STATES DEPARTMENT OF AGRICULTURE.
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1915.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; THOMAS H. SIMPSON, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
O. C. MERRILL, chief engineer.
T. W. NORCROSS, assistant chief engineer.
R. R. RANDELL, junior engineer.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

1376—15——1

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, inspector of records; W. J. MANGAN, examiner.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. H. Foster.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; WILL C. BARNES, assistant forester; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Silver City, N. Mex.

Range reserve experiments.—C. E. Fleming, grazing examiner; L. C. Hurtt, grazing assistant, Las Cruces, N. Mex.

Game studies.—C. L. Smith, forest supervisor, Gardiner, Mont.

LANDS.

E. A. SHERMAN, assistant forester, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, G. E. Clement.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, R. C. Judd.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—SIDNEY D. WELLS, acting in charge; H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, Robt. E. Prince, E. C. Sparver, Harlow Bradley, P. R. Hicks.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruby J. Tiller.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, acting in charge, Washington, D. C. Correlation of Lumber Grades and Consumers' Specifications, divided between members of office. Departmental Cooperation, Inspection and Revision of Government Specifications, J. C. Nellis and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Tight and Slack Cooperage Investigations, J. T. Harris, Washington, D. C. Box Industry Investigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determinate Quality of Material Grown Throughout the South and Sold in the Principal Markets, and Application of Density Rules (in cooperation with yellow pine associations). W. D. Brush, D. G. White, Washington, D. C. Mechanical Utilization of Mill and Factory Waste, R. K. Helphenstine, jr., Washington, D. C. Market Summaries and Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Collaborator, A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H.; H. S. Davis, H. L. Steffins, Karl Schmitt, J. S. Kaplan, assistants. Shenandoah Area, R. C. Hall, forest examiner in charge of party, W. R. Barbour, assistant, Harrisonburg, Va. Natural Bridge Area, E. L. Lindsey, forest assistant in charge of party, H. M. Sears, assistant, Buena Vista, Va. Boone Area, E. M. Bruner, forest examiner, Marion, N. C. Mount Mitchell Area, R. J. Noyes, forest examiner in charge of party, Marion, N. C. Savannah (S) Area, H. G. Spahr, forest examiner, Clayton, Ga. Nantahala Area, S. H. Thompson, forest examiner, Andrews, N. C. Alabama Area, C. E. Beaumont, forest examiner, Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C. White

Mountain Area, Arthur E. Hoxie and E. L. Merrill, examiners of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. White Top Area, W. N. Sloan, examiner of surveys, Abingdon, Va. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C. Nantahala Area, J. W. Fox, examiner of surveys, Andrews, N. C. Pisgah Area, James Denman, examiner of surveys, Biltmore, N. C. Savannah (N) Area, Harold G. Wood, examiner of surveys, Highlands, N. C. Cherokee Area, Frederick A. Gardner, examiner of surveys, Etowah, Tenn. Monongahela Area, A. M. Ockerblad, examiner of surveys, Elkins, W. Va. Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; James H. Swann and John E. Taylor, Benton, Tenn.; Alfred S. Grigg and E. W. R. Ewing, Johnson City, Tenn.; Julius Fletcher, Asheville, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; Gordon M. Combs, Clayton, Ga.; John Awtrey, Blue Ridge, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Fincastle, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

FIRE DETECTION.—JOHN B. SOMERS.

FIRE CONTROL.—D. M. CONNER.

MAINTENANCE.—GARDNER I. PORTER.

GEOGRAPHY.—F. E. BONNER. G. H. LAUTZ, entry surveys; C. F. FARMER, topographic surveys.

SILVICULTURE.—J. F. PRESTON, assistant district forester; D. T. MASON, assistant district forester, special assignment to lumber industry study.

Administrative Assistants.—CHARLES K. MCHARG, JR., and JOSEPH KITTREDGE, JR.

LOGGING ENGINEERING.—J. W. GIRARD and H. F. ELLARD, lumbermen; F. R. MASON.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—HOMER S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—MEYER H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Richard C. Eggleston, forest examiners; F. V. Fullaway, jr., forest assistant in charge of reconnaissance crew.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W).

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N).

St. Joe.—EDWARD A. HOLCOMB, forest supervisor, Avery (Continental–WF).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N).

Blackfeet.—R. P. McLaughlin, forest supervisor, Kalispell (WU–Am, GN); T. E. Miller, deputy forest supervisor.

Cabinet.—Carl M. Stevens, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—George E. Martin, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—Lewis C. Stockdale, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and A. B. Hastings, forest examiners.

Flathead.—Joseph D. Warner, forest supervisor, Kalispell (WU–Am, GN); Emery E. Wilson, deputy forest supervisor.

Gallatin.—Ralph E. Bodley, forest supervisor, Bozeman (WU–Am, N); Arthur H. Abbott, deputy forest supervisor.

Helena.—J. B. Seely, forest supervisor, Helena (WU–Am, N).

Jefferson.—Scott Leavitt, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—Glen A. Smith, forest supervisor, Libby (WU–Am, GN); Justin K. Dwinelle, deputy forest supervisor; Webster H. Ransom and John C. Ketridge, forest examiners.

Lewis and Clark.—Thomas C. Spaulding, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—Elers Koch, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—Roscoe G. Willson, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—Arthur C. Haines, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—Arthur C. Haines, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. Stickney, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN via Priest River); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester; JOHN MCLAREN, special detail.

A. E. PALEN, highway engineer (Office of Public Roads).

MAINTENANCE.—F. H. CARROLL.

GEOGRAPHY.—ROBT. E. PRATT.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. T. MCLEAN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Hot Sulphur Springs (WU–Ad); D. S. Jeffers, deputy forest supervisor.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU–WF).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF); Huber C. Hilton, forest examiner.

Durango.—W. R. FRASER, acting forest supervisor, Durango (WU–WF); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, US, WF); Arthur T. Upson, deputy forest supervisor, Everard S. Keithley, forest examiner; Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—W. I. HUTCHINSON, forest supervisor; Westcliffe (WU–WF); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–WF); A. F. C. Hoffman, forest examiner.

Sopris.—W. G. BAXTER, acting forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF).

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P–WF); Garden City Nursery.

MICHIGAN.

Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad); Halsey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—C. L. SMITH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor.

Bonneville.—C. G. POOLE, forest supervisor, Lander (WU–Am).

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); F. B. Notestein, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Fred B. Agee, deputy forest supervisor.

Washakie (Eastern Division).—C. G. POOLE, forest supervisor, Lander (WU–Am); Michael J. Sweeney, forest examiner.

Washakie (Western Division).—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; PAUL P. PITCHLYNN, national forest examiner, fire study; W. H. GILL, geography; HOWARD B. WAHA, national forest examiner; ALDO LEOPOLD, forest supervisor (detail); DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction.

O. N. POWELL, highway engineer (Office of Public Roads).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester on special assignment to lumber industry study; JOSEPH C. KIRCHER, forest

examiner, acting in charge; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies; A. J. JAENICKE, forest assistant.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, surveyor, Coronado; R. P. A. JOHNSON, surveyor, Prescott; C. A. LONG, surveyor, Chiricahua; LEE C. DAVES, surveyor, Gila.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF); Clifford W. McKibbin, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF).

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—J. H. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner; Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; VERNON METCALF, administrative assistant.

CHAS. H. KENDALL, highway engineer (Office of Public Roads).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—C. G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—JAMES M. FETHEROLF, in charge. N. B. ECKBO and F. S. BAKER, forest examiners.

GRAZING.—HOMER E. FENN, assistant district forester.

C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; S. E. Bower and F. S. Baker, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P); H. B. Marias, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor; W. N. Sparhawk, forest examiner.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am).

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU–Am); Raymond G. Steele, deputy forest supervisor, Manhattan.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhatton.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, acting forest supervisor, Logan (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello, Idaho.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF); Lester E. Hitchcock, forest examiner.

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); Carl A. Mattesson, deputy forest supervisor; David A. Arrivee, forest examiner.

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU–WF); S. B. Locke, deputy forest supervisor.

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor; J. C. Roak, forest examiner.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU–WF).

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Earl C. Sanford and Adolph G. Hauge, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); JOHN E. INGRAM, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FRED-

ERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads).

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

C. H. ENSIGN, scaler, lumbering studies.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.: G. FLIPPO GRAVATT, scientific assistant.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stewart B. Show, assistant forest examiner.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, Escondido (WU–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff–WF via Red Bluff); Hamilton G. Merrill, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Big Sur (WU via Soledad–WF via Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Edward I. Kotok, forest examiner; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forester supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

B. J. FINCH, highway engineer (Office of Public Roads).

MAINTENANCE.—SHIRLEY BUCK.

INSPECTION UNDER WEEKS LAW.—N. G JACOBSON and A. G. JACKSON, forest examiners.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor.

SILVICULTURE.—F. E. AMES, assistant district forester; AUSTIN CARY, logging engineer, assigned to district 6, in charge of investigation of lumber industry; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—G. F. MEAD; W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT and A. H. HODGSON.

USES AND STATIONS.—G. F. MEAD.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—A. H. HODGSON.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor; R. H. Wallace, forest examiner.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker and Geo. A. Bright, forest examiners.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Oylmpia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N)

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, acting forest supervisor, Hot Springs (WU, P–WF, P).

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); A. C. Christeson, deputy forest supervisor; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–So).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—Edward E. Carter, forest inspector.

PRODUCTS.—Laboratory: Leslie R. Morris and Robert Leslie Pettigrew, assistant engineers in forest products.

DISTRICT 1.—Operation: Don B. Randolph, Beaverhead; Guy W. Kitch and Ralph H. Parsons, Coeur d'Alene; Eldon H. Myrick, Deerlodge; Frederick R. Paine, Flathead; William Berglund, Helena; James E. Willis, Madison; Wallace M. Laybourn, Pend Oreille; Jacob O. Thompson, Sioux, assistant forest rangers; Dallas E. Galloway, St. Joe, scaler. District office: Willard M. Drake, forest assistant. Operation: David S. Olson, assistant forest ranger. Silviculture: Mrs. Edith C. Beale and Ella Lovely, clerks (stenographers and typewriters).

DISTRICT 2.—Operation: Henry C. Orpen, district office; W. O. P. Fullerton and John H. Keep, Arapaho; Roscoe L. Bloss, Battlement; Alfred G. Clayton, Bighorn; Earl C. Dennis and Vernon C. Sheffield, Black Hills; Wm. B. Fay and Ray C. Montgomery, Durango; Ross

M. Lambdin, Gunnison; Fred C. Hill, Holy Cross; Evan J. Davis and Frank H. Rose, Routt; Geo. R. Hall, White River, assistant forest rangers; Rosamond E. Fry, district office; Clare S. O'Shea, White River, clerks (stenographers and typewriters).

DISTRICT 3.—Operation: Willard L. Stiles, Apache, clerk (stenographer and typewriter); Alston D. Morse, Coconino; Charles E. Moore, Pecos; William R. Warner, Prescott; Joseph R. Calloway and Charles A. Firth, Tonto; William T. Doherty, Tusayan, assistant forest rangers; Charles M. Kachemeier, Tonto, clerk (stenographer and typewriter). Silviculture: Mathew J. Culley, district office, assistant forest ranger. Lands: Charles D. Hodson, district office, surveyor-draftsman.

DISTRICT 4.—Operation: Parley P. Peterson, jr., Ashley; James W. Robins, Fishlake; Samuel E. Sternberg, Salmon; Lewis B. Koch, Wyoming, assistant forest rangers; Frank P. Collins, Humboldt, forest clerk; George L. Peeples, district office, draftsman (copyist).

DISTRICT 5.—Operation: Henry W. Atcheson, Mono; Claude W. Beardsley, Sequoia, assistant forest rangers; Edmund E. Meyer, Plumas, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: Gertrude L. Whiting and Edith M. Youngkrantz, district office; Wm. E. Naylor, Chelan; Benjamin Irving, Santiam, clerks; Axel W. Erickson, Columbia; Royal U. Cambers, Crater; Benjamin F. Smith, Deschutes; Raymond H. Chapler, Santiam; Floyd V. Horton, Wallowa, assistant forest rangers. Silviculture: Robert H. Weitknecht, district office, assistant forest ranger. Lands: Edgar S. Dorman, district office, surveyor-draftsman; Frederick W. Rase and George W. Root, district office, surveyors. State Land Exchange: Lena M. Ash, district office, clerk. Products: Everett G. Snell, Seattle laboratory, assistant engineer forest products.

PROMOTED IN RANK.

OPERATION.—George G. Anderson, clerk to inspector of records.

RESEARCH.—Forest investigations: George N. Lamb, scientific assistant in basket willow culture to forest examiner. Products: David G. White, forest assistant to forest examiner.

ACQUISITION.—J. S. Kaplan, H. N. Sears, E. L. Lindsey, and L. H. Steffens, forest assistants to forest examiners.

DISTRICT 1.—Operation: R. E. Bodley, Gallatin; Arthur C. Haines, Sioux; Charles F. Howell, Selway, acting forest supervisors to forest supervisors; Carl M. Stevens, Cabinet, forest examiner to forest supervisor; Emery E. Wilson, Flathead, forest ranger to deputy forest supervisor; Burr W. Clark, Madison, forest ranger to deputy forest supervisor; John S. Paddock, Madison; R. R. Fitting and Adolph Weholt, Selway, assistant forest rangers to forest rangers. District office: Frank A. Fenn, forest supervisor to assistant district forester. Lands: James B. Yule, assistant forest ranger to surveyor-draftsman. Geography: Raymond E. Maurer, assistant forest ranger to surveyor.

DISTRICT 2.—Operation: Gordon Parker, Montezuma, forest examiner to forest supervisor; Arthur T. Upson, Pike, forest examiner to deputy forest supervisor; Vance I. Coe, Black Hills; John L. Allen, Bridger; James P Reddick, Harney, assistant forest rangers to forest rangers.

DISTRICT 3.—Operation: Robert Stephenson, district office; Carl H. Riblett, Apache; Otto P. Schoenberg, Manzano; Charles V. Shearer, Pecos; Franklin H. Owens, Sitgreaves, assistant forest rangers to forest rangers.

DISTRICT 5.—Operation: Lewis Carrigan, Klamath, clerk to deputy forest supervisor; Guy S. Exon, Cleveland; Henry A. Kloppenburg and Allan J. Stanley, Plumas, assistant forest rangers to forest rangers; Jesse R. Hall, Santa Barbara, deputy forest supervisor, Klamath, to forest supervisor, Santa Barbara; Ernest B. Long, Shasta, forest ranger to deputy forest supervisor; Christopher Rachford, forest supervisor, Santa Barbara, to assistant district forester, Grazing, district office.

DISTRICT 6.—Operation: Shirley Buck, clerk to national forest inspector; Pearl V. Ingram, Fremont, assistant forest ranger to forest ranger. Lands: Thomas M. Talbot, district office, clerk (land law) to national forest examiner.

DISTRICT 7.—W. J. Damtoft, Smoky Mountain area, forest assistant to forest examiner.

CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Howard E. West, Gallatin; Adrian C. Adams, Jefferson, forest assistants to assistant forest rangers; Raymond L. Woesner, Blackfeet; Claget Sanders, St. Joe, forest rangers to scalers; William H. McCoy, Madison, forest ranger to assistant forest ranger. District office: Charles A. Fisher, forest supervisor to national forest examiner, Lands.

DISTRICT 2.—Operation: Theodore Krueger, Nebraska, assistant forest ranger to forest assistant; Allen W. Murdock, Michigan, forest assistant to assistant forest ranger.

DISTRICT 3.—Operation: Willis M. Baker, Apache; Frank T. Murphey, Carson; Oscar F. Schaefer, Coconino; Stanley F. Wilson, Coronado; C. Norman Hammond, Tusayan, Alfred W. Voight, Tonto, forest assistants to assistant forest rangers.

DISTRICT 5.—J. O. Morrow, deputy forest supervisor to national forest examiner.

RESIGNED.

RESEARCH.—Forest investigations: Georges de S. Canavarro, forest examiner; Hugh Maxwell, collaborator.

DISTRICT 1.—Operation: Claude W. Griffin, Cabinet, forest supervisor; James R. Gillis, Pend Oreille, forest assistant; Marion E.

Heikes, Blackfeet; Orie E. Heater and James Carl Saint, Cabinet; Lawrence J. Howard, Helena; John A. Kierstead, Nezperce, assistant forest rangers; Ernest D. Lamka, Lewis and Clark, forest clerk. District office; Lewis Padgett, Geography, draftsman (copyist-topographic); Ellen M. Linell, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Roderick D. McDonald, Bighorn; Angus H. Taylor, Routt; Otis M. Wimmer, Sopris, forest rangers; Ray M. Bradshaw, Arapaho; Thomas O. Patterson, Battlement; Earl C. Dennis, Black Hills; Kay L. Clark, Bonneville; Charles W. Kiel, Durango; John Owen Eames, Hayden; Walter F. Baumdicker, Leadville; Walter W. Smith, Michigan; Harry G. Waechter, Shoshone, assistant forest rangers.

DISTRICT 3.—Operation: John Spaerer, district office, draftsman (copyist-topographic); Albert C. Clancy, Carson; Otis C. Watson, Datil; R. L. Pfaffle, Jemez; Ralph C. Ramsay, Prescott; Joseph L. Henderson, Sitgreaves; John R. Coleman, Tonto, assistant forest rangers; William K. Blessing, Carson, clerk; William A. Stuart, Chiricahua; James F. Westfall, Coronado; Amasa O. Reynolds, Datil; Osmer D. Flake, Sitgreaves, forest rangers; George R. Brown, Manzano, forest clerk; Ruth C. Robbins, Tonto, clerk (stenographer and typewriter).

DISTRICT 4.—Operation: Lee O. Miles, Payette; Rolland A. Stretch, Wyoming, forest examiners; William R. Green, Ashley; George L. McGowan, Challis; Monty E. Buster, Payette; John F. Woodman, Targhee, assistant forest rangers.

DISTRICT 5.—Roy Bucknell, California; Harvey R. Cheesman and Archibald M. Cooper, Angeles; Albert R. Ivey, Tahoe; Eugene L. Johnston, Santa Barbara; George A. Kresge, Modoc; John A. Molin, Trinity; Waine E. Westfall, Sierra, assistant forest rangers; Harvey D. Gerwig, Cleveland; Wilfred A. Robison, Sequoia, forest clerks.

DISTRICT 6.—Operation: Louise Yoran, Cascade, clerk; Perry A. Thompson, Colville; William C. Fruit, Crater; Orville M. Gillenwater, Ochoco; Abner T. Wright, Ranier; Rush Ramey, Whitman, assistant forest rangers; Spencer A. Blankenship, Wenatchee; William C. Neff, Whitman, forest rangers. Silviculture: Hugo A. Winkenwerder, district office, forest assistant. Products: Marc Darrin, Seattle Laboratory, chemist in forest products.

With deep regret announcement is made of the death of Miss S. F. Seaton, clerk, Washington office, May 21, and John F. Greiman, statistical clerk, Washington office, June 8.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR

Law Cases in District 1—

United States *v.* W. C. Day: Property trespass, criminal, Jefferson National Forest. Case closed upon payment of $17.94, value of property stolen.

United States *v.* Eli Dobrata: Fire trespass, criminal, Missoula National Forest. Arrested and arraigned January 26, 1915, entering plea of not guilty. June 18, 1915, withdrew plea and entered plea of guilty. Fined $20 and costs, amounting to $60.43; total, $80.43.

United States *v.* Northern Pacific Railway Co.: Suit to cancel railroad's patent, Gallatin National Forest. Indemnity selection lands in Gallatin National Forest. Complaint filed by United States attorney June, 1915.

United States *v.* A. C. B. Pardoe: Property trespass, criminal, Flathead National Forest. Complaint filed under State law. Defendant sentenced to serve 60 days in county jail at Kalispell, Mont.

United States *v.* Romney, Sanderson, et al.: Property trespass, criminal, Absaroka National Forest. Theft of Government property from ranger station. Case presented to Federal grand jury at Helena June 17, 1915. Jury failed to return a true bill.

Law Cases in District 3—

United States *v.* Cyrus Marsteller: Grazing trespass, Coronado National Forest. Judgment, June 22, for $50 and costs $10.05; satisfied.

United States *v.* William Fourr: Occupancy trespass, Chiricahua National Forest. Decree May 18 directing removal of fence and awarding United States $54.22 damages and costs.

United States *v.* Jose Mendosa: Timber trespass, Crook National Forest. June 16, defendant fined $25; paid.

United States *v.* Wm. P. Sproull: Grazing trespass, Tonto National Forest. Complaint asking injunction and damages filed. Order entered June 21, requiring defendant to show cause why temporary injunction should not issue.

Law Case in District 4—

United States *v.* Saunders, Grand Canyon Cattle Co., et al.: Cancellation of patents. On April 28, 1915, a decision was handed down by Judge Sawtelle, of the United States district court for Arizona, holding that, while the Government had made out a case showing fraud in obtaining patents covering certain water holes and watering places in and adjacent to the Kaibab National Forest under the guise of mineral claims, the company was an innocent purchaser for value, and he ordered a decree entered for the defendant. The case is under consideration with a view to taking an appeal.

Law Cases in District 5—

United States *v.* C. H. Fee: Grazing trespass, Monterey National Forest. Settled by payment of $13.40.

United States *v.* Orcier and Arzul: Grazing trespass, Mono National Forest. Settled by payment of $14.52 each.

United States *v.* Pierce & Smart: Timber trespass, Tahoe National Forest. Paid a third installment of $100.

United States *v.* James Irvine: Fire trespass, Cleveland National Forest. Settlement in full by payment of $88.40.

United States *v.* The Engels Copper Mining Co.: Timber trespass, Plumas National Forest. The company paid the sum of $1,467.28 in full settlement.

United States *v.* The Truckee Lumber Co.: Timber trespass, Tahoe National Forest. The company paid $615.32 as part payment.

United States *v.* Matias Erro: Grazing trespass, Sierra National Forest. During the May term of the Federal court at Fresno, Cal., a consent judgment of $150 was entered against Erro. Judgment was paid.

United States *v.* Davies Box & Lumber Co.: Timber trespass, Tahoe National Forest. The company offered the sum of $265 in settlement. This offer has not as yet been accepted by the Treasury Department.

Law Cases in District 6—

United States *v.* Chas. W. Mock: Personating a forest officer, Snoqualmie National Forest. Pleaded guilty April 5, 1915, before the United States district court at Seattle, Wash.; was sentenced to 30 days in jail.

United States *v.* Walter B. Davidson: Property trespass, Oregon National Forest. On May 28 the Federal grand jury of Portland, Oreg., returned an indictment against defendant, under section 60 of the Penal Code, for cutting a Forest Service telephone line. Defendant pleaded guilty.

United States *v.* S. G. McCubbin: Grazing trespass, Wallowa National Forest. Settled by payment of $10.75 actual damage, costs $37.45, total $48.20.

OPERATION.

Development of New Equipment—

A plan has been inaugurated whereby the supply depot at Ogden, Utah, will be made a clearing house for information regarding experiments, conducted throughout the Service, with new features in the way of fire-fighting devices and equipment for other purposes. This scheme, of which details will be issued by the district foresters, is expected to promote progress and at the same time prevent duplication of work along any given line.

Property Secured by Purchase—

The Forester has approved the following changes in the Manual, effective July 15, so as to enable the property auditor to check non-expendable property on Form 939c:

On page 28–A, after the end of the second paragraph under the heading "Property procured by purchase," add "He will indicate on the Form 939c sent to the property auditor all articles or materials entering into the maintenance or construction of permanent improvements and the construction of any equipment, furniture, or furnishings."

Paragraph 3, under the same heading, after the word "made," in line 1, add "of any Form 5a account."

On page 33–A, the paragraph under "Property auditor's reports" is amended by adding after the word "water," in line 4, the following: "and articles entering into construction and maintenance of improvements, such as lumber, doors, windows, telephone and fencing material, and hardware."

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 145.—Tests of Wood Preservatives.
Department Bulletin 210.—Seed Production of Western White Pine.
Department Bulletin 237.—The Production of Lumber in 1913.
Unnumbered Publication.—A Handbook for Campers in the National Forests of California.
Yearbook Extract.—The National Forests and the Farmer.
Yearbook Extract.—The Farm Woodlot Problem.
Folder for Ochoco National Forest.
Folder for Sierra National Forest.
Folder for Fishlake National Forest.
Folder for Modoc National Forest.
Folder for Plumas National Forest.
Folder for California National Forest.
Folder for Trinity National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[JULY, 1915.]

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WASHINGTON : GOVERNMENT PRINTING OFFICE : 1915

No. 3. Issued October 15, 1915.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1915.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; THOMAS H. SIMPSON, in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
O. C. MERRILL, chief engineer.
T. W. NORCROSS, assistant chief engineer.
R. R. RANDELL, assistant engineer.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

10187—15——1

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, inspector of records; W. J. MANGAN, examiner.

GEOGRAPHY.—C. A. KOLB, Chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; H. J. Kaestner, State forester, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; WILL C. BARNES, assistant forester; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Silver City, N. Mex.

Range reserve experiments.—C. E. Fleming, grazing examiner; L. C. Hurtt, grazing assistant, Las Cruces, N. Mex.

LANDS.

E. A. SHERMAN, assistant forester, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, G. E. Clement.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

Administrative assistants.—H. S. BETTS and CARLILE P. WINSLOW.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, R. C. Judd.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; Sidney D. Wells, H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, Robt. E. Prince, P. R. Hicks.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruby J. Tiller.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, acting in charge, Washington, D. C. Correlation of Lumber Grades and Consumers' Specifications, divided between members of office. Departmental Cooperation, Inspection and Revision of Government Specifications, J. C. Nellis and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Tight and Slack Cooperage Investigations, John T. Harris, Washington, D. C. Box Industry Invstigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determine Quality of Material Grown Throughout the South and Sold in the Principal Markets, and Application of Density Rules (in cooperation with yellow pine associations), W. D. Brush, Washington, D. C. Mechanical Utilization of Mill and Factory Waste, R. K. Helphenstine, jr., Washington, D. C. Market Summaries and Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Collaborator, A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H.; H. S. Davis, H. L. Steffins, W. J. Damtoft, J. S. Kaplan, assistants. Potomac Area, C. E. Beaumont, forest examiner in charge of party, Woodstock, Va. Shenandoah Area, R. C. Hall, forest examiner in charge of party, W. R. Barbour, assistant, Harrisonburg, Va. Natural Bridge Area, H. M. Sears, forest assistant in charge of party, Buena Vista, Va. Boone Area, E. M. Bruner, forest examiner, Marion, N. C. Mount Mitchell Area, R. J. Noyes, forest examiner in charge of party, Marion, N. C. Savannah (S) Area, H. G. Spahr, forest examiner, Clayton, Ga. Cherokee Area, S. H. Thompson, forest examiner, Etowah, Tenn. Unaka Area, J. L.

Cobbs, jr., forest examiner in charge of party, Johnson City, Tenn.; E. L. Lindsey, assistant.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C. White Mountain Area, Arthur E. Hoxie, examiner of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. Unaka Area, W. N. Sloan, examiner of surveys, Johnson City, Tenn. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion N. C. Nantahala Area, J. W. Fox and James Denman, examiners of surveys, Andrews, N. C. Savannah (N) Area, Harold G. Wood, examiner of surveys, Highlands, N. C. Boone Area, Frederick A. Gardner, E. L. Merrill, and A. M. Ockerblad, examiners of surveys, Marion, N. C. Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; James H. Swann and John E. Taylor, Benton, Tenn.; Alfred S. Grigg and E. W. R. Ewing, Johnson City, Tenn.; Julius Fletcher, Asheville, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; Gordon M. Combs and John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Fincastle, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

FIRE DETECTION.—JOHN B. SOMERS.

FIRE CONTROL.—D. M. CONNER.

MAINTENANCE.—GARDNER I. PORTER.

GEOGRAPHY.—F. E. BONNER. G. H. LAUTZ, entry surveys; C. F. FARMER, topographic surveys.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—CHARLES K. MCHARG, JR., and JOSEPH KITTREDGE, JR.

LOGGING ENGINEERING.—J. W. GIRARD, lumberman; F. R. MASON, deputy supervisor.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—HOMER S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU–Am).

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Richard C. Eggleston, forest examiners; F. V. Fullaway, jr., forest assistant in charge of reconnaissance crew.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N).

St. Joe.—EDWARD A. HOLCOMB, forest supervisor, St. Maries (Continental–WF).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); H. F. Lindsay, forest examiner.

Blackfeet.—R. P. McLaughlin, forest supervisor, Kalispell (WU–Am, GN); T. E. Miller, deputy forest supervisor.

Cabinet.—Carl M. Stevens, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—George E. Martin, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—Lewis C. Stockdale, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and A. B. Hastings, forest examiners.

Flathead.—Joseph D. Warner, forest supervisor, Kalispell (WU–Am, GN); John H. Clack and Emery E. Wilson, deputy forest supervisors.

Gallatin.—R. E. Bodley, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. Seely, forest supervisor, Helena (WU–Am, N).

Jefferson.—Scott Leavitt, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—Glen A. Smith, forest supervisor, Libby (WU–Am, GN); John C. Ketridge, forest examiner.

Lewis and Clark.—Justin K. Dwinelle, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—Elers Koch, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—Roscoe G. Willson, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota

NORTH DAKOTA.

Dakota.—Arthur C. Haines, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—Arthur C. Haines, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—M. N. Stickney, forest supervisor, Coolin, Idaho (WU via Priest River–Am, Gn via Priest River); J. F. Forsythe, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester; JOHN MCLAREN, special detail.

A. E. PALEN, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—F. H. CARROLL.

GEOGRAPHY.—ROBT. E. PRATT.

SILVICULTURE.—C. M. GRANGER, assistant district forester M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.— ———, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR T. UPSON, forest supervisor, Hot Sulphur Springs (WU–Ad); D. S. Jeffers, deputy forest supervisor.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—W. R. FRASER, acting forest supervisor, Durango (WU–WF); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P-WF); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU-WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P-Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, forest examiner; Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-WF); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor.

San Isabel.—W. I. HUTCHINSON, forest supervisor; Westcliffe (WU-WF); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU-WF); A. F. C. Hoffman, forest examiner.

Sopris.—W. G. BAXTER, acting forest supervisor, Aspen (WU-WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU-WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF).

KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

MICHIGAN.

Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU-Am); Huber C. Hilton, forest examiner.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU-GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU-Ad); Bessey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—C. L. SMITH, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Bonneville.—C. G. POOLE, forest supervisor, Lander (WU–Am).

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am); P. J. Paxton, forest examiner.

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); F. B. Notestein, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad).

Washakie (Eastern Division).—C. G. POOLE, forest supervisor, Lander (WU–Am); Michael J. Sweeney, forest examiner.

Washakie (Western Division).—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer; ALDO LEOPOLD, forest supervisor (detail), information.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; PAUL P. PITCHLYNN, national forest examiner, fire study; W. H. GILL, geography; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction.

O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester on special assignment to lumber industry study; JOSEPH C. KIRCHER, forest examiner, acting in charge; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies: A. J. JAENICKE, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, surveyor, Coronado; R. P. A. JOHNSON and C. D. HODSON, surveyors, Coconino; C. A. LONG, surveyor, Alamo; LEE C. DAVES, surveyor, Santa Fe.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF); Clifford W. McKibbin, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF).

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—J. H. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULIEN, forest supervisor, Albuquerque (WU, P–WF); D. O. Arthur, deputy forest supervisor.

Santa Fe.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner; Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; W. N. SPARHAWK, forest examiner, fire reconnaissance.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—JAMES M. FETHEROLF, in charge. N. B. ECKBO and S. E. BOWER, forest examiners.

GRAZING.—HOMER E. FENN, assistant district forester; C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk; R. E. CONNER, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; L. H. Weyl and F. S. Baker, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cacha.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner. Grazing reconnaissance: C. E. Favre.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P); H. B. Marias, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor (on special road work); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU–WF).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise Valley (WU–Am, WF).

Toiyabe.—VERNON METCALF, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor. Grazing reconnaissance: T. B. Nichols, C. C. Forsling. Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello, Idaho.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); Carl A. Mattesson, deputy forest supervisor; David A. Arrivee, deputy forest supervisor.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor. Grazing reconnaissance: E. C. Sanford, H. W. Johnston, J. A. Willey.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor. Grazing reconnaissance: A. W. Stevens, L. J. Palmer.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); H. C. Williams, deputy forest supervisor. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Adolph G. Hauge, J. C. Roak, and Lester E. Hitchcock, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); John E. Ingram, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant; G. FLIPPO GRAVATT, scientific assistant, San Francisco, Cal.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Willows (WU–WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, Escondido (WU–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); Hamilton G. Merrill, deputy forest supervisor; Russell Watson, temporary forest assistant, reconnaissance.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Big Sur (WU via Soledad–WF via Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Edward I. Kotok, forest examiner; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forester supervisor; D. C. Birch and Ernest G. Dudley, forest examiners; C. H. Ensign, scaler, timber sales.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners; J. T. Noddin, forest ranger, timber sales.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, forest inspector.

B. J. FINCH, highway engineer (Office of Public Roads and Rural Engineering).

INSPECTION UNDER WEEKS LAW.—N. G. JACOBSON and A. G. JACKSON, forest examiners.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor.

SILVICULTURE.—F. E. AMES, assistant district forester; AUSTIN CARY, logging engineer, assigned to district 6, in charge of investigation of lumber industry; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT and A. H. HODGSON.

USES AND STATIONS.—T. M. TALBOT.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—A. H. HODGSON.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; R. H. Wallace and Geo. A. Bright, forest examiners; Robert Craig, national forest examiner.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton, (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest examiner; F. A. Matz, national forest examiner.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Oaknogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF).

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L, HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; S. L. WOLFE, forest examiner, in charge of products.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, acting forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, forest examiner.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); A. C. Christeson, deputy forest supervisor; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, foiest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–So).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Laboratory: David T. Mason, collaborator; Otto Kress, pulp and paper engineer.

SILVICULTURE.—State cooperation: Herbert J. Kaestner, collaborator.

DISTRICT 1.—Operation: Ogden E. Brooks and Milford E. Raymond, Coeur d'Alene; Frank L. Bosworth, S. W. Murdock, and Alfred L. Ross-

man, Flathead; A. M. Anderson, St. Joe, scalers; Carlyn C. Delavan and Richard A. Hamilton, Coeur d'Alene, forest assistants; Claud E. Sutton, Nezperce; Topliff O. Paine, St. Joe, assistant forest rangers; John F. Gillings, Beartooth, forest clerk; Beatrice F. Welch, Deerlodge; Mary S. Buzzell, Lewis and Clark; Elva T. Crane, St. Joe, clerks (stenographers and typewriters). District office: Myrtie M. Slasor, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: George W. Goodson, Bonneville; William F. Cochran, Routt; Willard C. Hassel, Superior; Walter A. Wagner, Uncompahgre, assistant forest rangers; Walter J. Hoffman, Fremont experiment station; Raymond G. Colwell, San Isabel, clerks (forest); Bertha S. Kaltenbach, district office; Mrs. Ruth B. Woods, Medicine Bow, clerks (stenographers and typewriters); Earl W. Tinker, Black Hills; Thomas H. Gill and Andrew Hutton, Bonneville; Bernard E. Leete, Medicine Bow; Gerald M. Hunter, Routt, forest assistants.

DISTRICT 3.—Operation: Chas. E. Lippert, district office, copyist topographic draftsman; Frank C. Severns, district office, blue printer; Herbert B. Herms, Apache (by transfer from Reclamation Service); Harry J. Yardley, Carson; Victor A. Frey, Lincoln, clerks (forest); Julia Ziegler, Carson, clerk (stenographer and typewriter); Chas. K. Cooperrider, Santa Fe, assitant forest ranger. Lands: Anna H. Meyers, district office, clerk (stenographer and typewriter). Grazing: Paul H. Roberts, district office, assistant forest ranger.

DISTRICT 4.—Operation: Arthur W. Stevens, Caribou, assistant forest ranger; Nellie Fletcher, district office, clerk (stenographer and typewriter). Grazing: Clarence L. Forsling, Cache; Leon H. Weyl, Utah experiment station, grazing assistants.

DISTRICT 5.—Operation: Carroll H. Lamb, Sequoia, clerk (forest). Grazing: Fred D. Douthitt, district office, grazing examiner.

DISTRICT 6.—Operation: John C. Christian and Geo. M. Sadler, Rainier; Chas. F. Allen, Siskiyou; Ulva F. Collins and John E. Flurry, Umpqua, assistant forest rangers; David H. Blakelock, Whitman, draftsman; Oliver M. Porter, Malheur, forest assistant.

PROMOTED IN RANK.

FORESTER.—Water power: Ralph R. Randell, junior engineer to assistant engineer.

DISTRICT 1.—Operation: Justin K. Dwinelle, Lewis and Clark, deputy forest supervisor to forest supervisor; Charles B. Baker, Blackfeet; Samuel V. Fullaway, jr., Coeur d'Alene; Herman J. A. Grossmann, Jefferson; Ernest C. Rogers, Priest River experiment station, forest assistants to forest examiners; C. Lee Billings, Pend Oreille, assistant forest ranger to deputy forest supervisor; William P. Hillman, Helena; Sherwood S. McEwan, Kaniksu, assistant forest rangers to forest rangers. District office: Homer S. Youngs, grazing assistant to grazing

examiner; Joseph Kittredge, jr.; Charles K. McHarg, jr., forest assistants to forest examiners; Hartley A. Calkins, draftsman (topographic) to surveyor-draftsman; D. M. Conner, national forest examiner to deputy forest supervisor.

DISTRICT 2.—Operation: Arthur T. Upson, Arapaho, deputy forest supervisor to forest supervisor; Luke E. Smith, Bighorn; Robert C. McConnell, Colorado; Harry O. Halleck, Sopris, assistant forest rangers to forest rangers; William R. Fraser, Durango, forest ranger to deputy forest supervisor; Richard A. Phillips, Harney, forest assistant to forest examiner; K. G. Brown, Uncompahgre, assistant forest ranger to clerk.

DISTRICT 3.—Operation: Thomas Earl Wylder, Apache; Robert H. Zeiger, Prescott, assistant forest rangers to forest rangers; O. Fred Arthur, Manzano, forest ranger to deputy forest supervisor.

DISTRICT 4.—Operation: Edwin C. Shepard, Cache; Samuel B. Locke, La Sal, deputy forest supervisors to forest supervisors; Vernon Metcalf, Toiyabe, clerk to forest supervisor; David A. Arrivee, Fishlake, forest examiner to deputy forest supervisor; Edmund B. S. Spencer, Cache; Frank S. Moore, Payette; Wallace M. Riddle, Sevier; Samuel W. Stoddard, Targhee, forest rangers to deputy forest supervisors; Charles D. Simpson, Minidoka; Lyle F. Watts, Wyoming, forest assistants to forest examiners; Thomas J. Burke and George P. Low, Fillmore; Samuel A. Buchannan, Minidoka; Walter C. Mellenthin and Foster Steele, Targhee; Elmer E. McGinness, Weiser, assistant forest rangers to forest rangers. District office: Clinton G. Smith, forest supervisor to assistant district forester. Grazing: Mark Anderson, grazing assistant to grazing examiner.

DISTRICT 5.—Operation: Clarence Wiley, district office, clerk to national forest inspector. Lands: Charles S. Brothers, district office, clerk to national forest inspector.

DISTRICT 6.—Operation: Robt. Craig, jr., Oregon; Fred A. Matz, Whitman, forest rangers to national forest examiners; Jason P. Williams, Tongass; Claude W. Waterbury, Whitman, assistant forest rangers to forest rangers. Land exchange: Ryle Teed, district office, assistant forest ranger to national forest examiner.

CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Alfred J. Feary, Kaniksu, forest ranger to scaler; Wallace W. Weber, Flathead; Winslow L. Gooch, Sioux, forest assistants to assistant forest rangers.

DISTRICT 2.—Operation: Harold Allen Speidel and Ernest T. Wolf, Bonneville, forest assistants to assistant forest rangers; Louis Knowles, Harney, deputy forest supervisor to forest ranger; Roscoe B. Weaver, Routt, assistant forest ranger to forest assistant.

DISTRICT 4.—Operation: J. G. Falck, district office, property auditor to clerk; John E. Ingram, Wyoming, deputy forest supervisor to forest examiner.

RESIGNED.

RESEARCH.—Laboratory: Harlow Bradley, assistant engineer in forest products.

ACQUISITION.—Robert E. Witt, examiner of surveys; Karl Schmitt, forest examiner.

DISTRICT 1.—Operation: Donald Bruce, Flathead; Thomas C. Spaulding, Lewis and Clark, forest supervisors; Harry M. Ralston, Blackfeet; James W. Stanton, Deerlodge; Percy Knowles, Gallatin; Claud O. Houghton, Kootenai, assistant forest rangers; Dorothy Nebergall, St. Joe, clerk (stenographer and typewriter). District office: D. T. Mason, assistant district forester.

DISTRICT 2.—Operation: Forman T. McLean, Fremont experiment station, forest examiner; Regina S. Emmerich, district office, clerk (stenographer and typewriter); Eugene Williams, Cochetopa, forest supervisor; Bernard M. Shoemaker, San Isabel, clerk (forest); Louis H. Murphy, Harney; Leon E. Thomas, Kansas; Victor C. Follenius, Pike; Pleasant H. Sallee, Routt; Albin E. Drakenberg, Superior, assistant forest rangers.

DISTRICT 3.—Operation: Paul J. Keifer, district office, blue printer; Howard B. Waha, district office, national forest examiner; G. Harris Collingwood, Apache; Leslie Clayton, Coconino; Robert W. Nourse, Datil; Chas. E. Reagan and Harry W. Ulmo, Prescott, assistant forest rangers; Birtsal W. Jones, Coronado; Edgar M. Twitty, Tusayan, forest rangers. Law: Pearl E. Tompkins, district office, clerk (stenographer and typewriter). Grazing: Arthur D. Read, district office, forest examiner. Lands: Chas. M. Weber, district office, draftsman.

DISTRICT 4.—Operation: Orrin C. Snow, Sevier, forest supervisor; Doctor B. Bailey, Nevada, deputy forest supervisor; Frank A. Travis, Wyoming, forest ranger; William Scott Barton, Cache; Edward A. Killpack, Palisade; Walter F. Brough, Uinta; John Fee, Teton, assistant forest rangers.

DISTRICT 5.—Operation: Ralph Coles Doughty, Angeles; Orville H. Hughes, Modoc, assistant forest rangers; Walter C. Robinson, Plumas, forest ranger.

DISTRICT 6.—Operation: Lynn F. Cronemiller, Fremont; George Tonkin, Umatilla, assistant forest rangers.

With deep regret announcement is made of the death of Perry L. Snodgrass, forest ranger, Bighorn, July 11; Arthur G. Collins, assistant forest ranger, Wenatchee, July 25; Charles P. Gage, assistant forest ranger, Datil, July 31; and Ernest B. Clark, assistant forest ranger, Cabinet, September 3.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 45.

Establishment of the Branch of Research—

There is hereby established the Branch of Research in the Forest Service under the direction of Assistant Forester E. H. Clapp. The changes in the organization and procedure involved will be effective on June 1, 1915, but changes in allotments and accounting records will not be made until the beginning of the fiscal year 1916.

The Branch of Research is established in conformity with Memorandum No. 121, issued by the Secretary of Agriculture on March 10, 1915. Its purpose is to bring together under one executive head the various lines of research or investigative work conducted by the Forest Service. Correlation between the various kinds of investigative work has been secured effectively during the past three years by the central and district investigative committees. It is now deemed advisable to make such correlation more complete, which can be done only by bringing the lines of research under the same administrative direction. At the same time it is necessary to segregate investigative work more definitely from administrative work in accordance with the policy established for the department by the Secretary's Memorandum No. 121. It is further the purpose of this change to give the research work and personnel the fullest possible recognition and to develop and strengthen research as a coordinate division of the Service.

It is essential at the same time to retain intimate correlation between investigative and administrative work in order that the researches undertaken may be adapted as closely as possible to the current administrative needs of the Service, that administrative officers may be kept in close touch with research activities and continue to participate in the consideration of proposed work and development of plans for its prosecution, and that the results obtained may be directly and speedily applied in administration. When desirable, arrangements may be made to conduct certain investigations partly or entirely with the administrative personnel and under the direction of administrative officers. The procedure under the Branch of Research will therefore be so organized as to insure the participation of the administrative branches in their related lines of research to as full an extent as at the present time. Any cases of disagreement be-

tween the chief of Research and the chief of administrative branches on proposed research projects, allotments, assignments of personnel, etc., will be referred to the Forester for decision. Instructions to district foresters regarding the application of the results of research to National Forest work will be issued through the administrative branch concerned. Similar correspondence with persons outside of the Forest Service will ordinarily be handled by the Branch of Research, but the approval of the administrative branch concerned will be obtained in important cases.

To further correlate research and administrative activities, the Branch of Research will be placed under the general supervision of Assistant Forester W. B. Greeley. It will, however, be entirely distinct from and independent of the Branch of Silviculture.

The new branch will have the same functions in matters of general Service policy, personnel changes, approval of Forest working plans, approval of boundary changes, etc., which are discharged by the other branches.

The following Service activities, with the organization necessary to conduct them as indicated specifically in each instance, are transferred to the Branch of Research:

1. Silvicultural investigations, including the present office of investigations in the Branch of Silviculture in its entirety and studies of State forest conditions now conducted by the office of State cooperation. This transfer extends to the sections of computation and compilations, the Forest Service library, and the work conducted by the Forest Service in forest pathology, in cooperation with the Bureau of Plant Industry.

2. The forest products laboratory at Madison, Wis.

3 Industrial investigations, hitherto conducted as an office in the Branch of Products.

4. The study of the lumber industry, a special project hitherto conducted in part by the Branch of Silviculture and in part by the Branch of Products; and all other studies related to lumbering.

5. Studies in fire protection, including only work of a distinctly investigative character in this field, hitherto handled by the Branch of Operation. This excludes all matters of instruction, organization, correct methods in the protection of National Forests, and other work of an administrative nature.

6. Statistical investigations, including the statistical work on the production of forest products, lumber prices, stumpage prices, etc., now collected and compiled by the office of industrial investigations, and any other statistical investigations conducted by the Forest Service.

The foregoing does not involve the transfer of units of organization now conducting statistical work primarily for administrative purposes to the Branch of Research. It will be the duty of that branch, however, to correlate and supervise the statistical work of the Forest Serv-

ice as a whole, and it will be responsible for the efficient development of all statistical work conducted by the Service.

The work conducted by the Branch of Research will not include timber, grazing, or fire reconnaissance, the development of private forestry in the eastern States, the control of insect depredations on the National Forests, nor grazing studies, which will remain for the present under the Branch of Grazing.

Excepting only the personnel engaged upon grazing studies, the organization of the Branch of Research will include the entire personnel of the Forest Service which is engaged upon research work exclusively; and the great bulk of its activities will be conducted by such members of the Service. Where advisable, however, certain lines of work under the direction of this branch may be conducted by administrative officers, who, for this purpose and to this extent only, will be under the direction of the assistant forester in charge.

The Branch of Research will direct in each district all of the lines of investigation indicated above which are conducted in the district concerned, including forest products, market and lumbering studies, the silvicultural experiment station, the collection of statistics on lumber prices, the work in forest pathology, general economic investigations, and statistical investigations. Ultimately it will be desirable in every district to have all of the research work directed by this branch placed under the direction of one member of the district office staff, who will be in charge of an office of research. No attempt will be made to bring this organization about within any specified time, but only as it may appear practicable in accordance with available funds and personnel and the most efficient means of conducting the various kinds of investigation. For the present, the various kinds of research work in each district will remain under the direction of the respective offices to which they are now assigned.

In view of the correlation of research work at Washington effected by the establishment of the new branch, the continuance of the central investigative committee is no longer deemed necessary, and that committee is therefore discontinued, effective June 1. The assistant forester in charge of Research will assemble and correlate the investigative projects proposed by each branch or other unit in the Service, including the Branch of Grazing, and make up the annual investigative program for submission to the Forester. All investigative projects proposed by any unit in the Service will be submitted to him in accordance with the instructions in Service Order 41.

In order to secure adequate consideration of all of the administrative needs in each district, as bearing upon the character of the investigative work which should be done, and particularly to continue the representation of the supervisors in each district in consideration of plans for research, the district investigative committees will continue to exercise the function assigned to them by Service Order 41, including

the preparation of an annual program of investigative projects for the district.

Supplemental instructions to put this order into effect as to personnel assignments, filing arrangements, procedure as between the Branch or Office of Research and other branches or offices, etc., will be issued in the near future by the assistant forester in charge of Research with the approval of the chief of the administrative branch concerned and of the Forester or acting forester.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 2—

United States *v.* The Tin Cup Gold Dredging Co., Leadville and Gunnison National Forests: A claim for $58.87 against the Tin Cup Gold Dredging Co. on account of timber cut in construction of a transmission line under final water-power permit issued July 26, 1913, was filed with the referee in bankruptcy July 29, 1915.

United States *v.* R. T. Walker et al: Certain lands in the Harney National Forest had been made the basis for a lieu selection under the act of June 4, 1897. Patent had issued to the whole 160 acres of the base land and also the 40 acres of the lieu selection. The lieu selection for the remaining 120 acres has not yet been approved or patented. Timber was cut from all the base land. On June 16, 1915, decree was entered, canceling the patent to all the base land and quieting title to 40 acres thereof in the United States, and for damages in the sum of $1,399.54 for timber cut from this 40 acres, together with costs.

United States *v.* B. G. Neland: Occupancy trespass, Shoshone National Forest. This was a suit in equity for a mandatory injunction to compel the defendant to vacate certain land within the Shoshone National Forest, which he was occupying without permit, and to clean up the area by the removal of the structures he had erected thereon and by placing it in a sanitary condition. On June 10, 1915, decree was issued as prayed for.

United States *v.* C. W. Johnson: Grazing trespass, Montezuma National Forest. Judgment by stipulation for $40 and $54.75 costs, entered May 4, 1915.

United States *v.* Ellen Sanborn: Grazing trespass, Pike National Forest. Judgment by stipulation for $5 and $7.02 costs, entered May 6, 1915.

United States *v.* W. R. Sanborn: Grazing trespass, Pike National Forest. Judgment by stipulation for $5 and $7.32 costs, entered May 6, 1915.

United States *v.* Dennis Henault: Occupancy trespass, Harney National Forest. Temporary injunction granted July 1, 1915, restraining

defendant from occupying Custer ranger station and from interfering with forest officers improving the land.

United States *v.* Andrew Mickelson: Timber trespass, Black Hills National Forest. Consent judgment for $72.85 damages and $151.14 costs, entered May 25, 1915.

United States *v.* I. N. Pepper: Failure to complete timber sale, Uncompahgre National Forest. Complaint was filed June 14, 1915, for damages in the sum of $68.75 resulting through defendant's failure to complete a timber-sale contract.

Law Cases in District 3—

United States *v.* Wm. P. Sproull: Grazing trespass, Tonto National Forest. Temporary injunction granted August 3.

United States *v.* John Clary: Grazing trespass, Coronado National Forest. Permanent injunction granted September 27.

United States *v.* E. R. Chambers: Grazing trespass, San Juan National Forest (District 2). Judgment $17.27, and $176.13 costs, August 2.

United States *v.* Robert Eames: Fire trespass, Alamo National Forest. July 8, defendant held for grand jury under $2,000 bond.

United States *v.* H. Roehrs: Driving automobile on Hermit Rim road, Grand Canyon National Monument. September 8, defendant fined $25.

United States *v.* Evaristo Candelaria: Fire trespass, Apache National Forest. September 8, defendant fined $25; fine paid.

United States *v.* Wm. Fourr: Occupancy trespass, Chiricahua National Forest. Judgment $54.19, and $183.80 costs; satisfied August 11.

United States *v.* Kellogg & Estabrook: Grazing trespass, Prescott National Forest. Judgment for $1,000, and $111.50 costs; satisfied August 16.

Ralph H. Cameron *v.* Register and Receiver, United States Land Office, Phoenix, Ariz.: Application for injunction against register and receiver to prevent their proceeding with hearings in cases involving mineral locations on which no application for patent has been made. September 8, application for temporary injunction denied, and complaint dismissed on ground that the court had no jurisdiction to interfere with proceedings.

Law Cases in District 4—

United States *v.* Max Parks: Property trespass, Boise National Forest. Upon being arrested and taken before the United States commissioner at Boise the defendant pleaded guilty to a complaint charging him with interfering with a telephone line of the United States in violation of section 60 of the Penal Code, and was bound over to await the action of the grand jury. The offense consisted in cutting from a Forest Service telephone line about 30 feet of wire, which was used in repairing a wagon.

United States *v.* Dow Dyer: Property trespass, Minidoka National Forest. On February 15, 1915, defendant was indicted for the stealing

of an ax and shovel belonging to the United States. Upon pleading guilty to the indictment he was fined $50 and given 60 days in which to pay it. Owing to the poverty of his family a jail sentence was not imposed.

United States *v.* Ralph L. Call: Grazing trespass, Boise National Forest. Settled by payment of $6 actual damages, $10 punitive damages, and costs amounting to $5.60, or $21.60 in all. Suit dismissed September 13, 1915.

Utah Light & Traction Co. *v.* United States: Appeal from decree of district court enjoining the company from maintaining and operating certain hydroelectric power works on the Wasatch National Forest. Set for hearing before the United States Circuit Court of Appeals at Denver on September 29.

Utah Power & Light Co. *v.* United States (two cases): Appeal from decree of district court enjoining the company from maintaining and operating certain hydroelectric power works on the Cache and Wasatch National Forests. Set for hearing before United States Circuit Court of Appeals at Denver on October 6.

Law Cases in District 5—

United States *v.* Pine Valley Water & Land Co.: Cleveland National Forest. In a suit to cancel an easement for reservoir granted under the act of March 3, 1891, relinquishment was filed by the company and the case closed.

United States *v.* C. J. Caldwell: Modoc National Forest. A decree was entered by the district court canceling three easements for reservoirs and ditches granted under the act of March 3, 1891.

United States *v.* Harold T. Power: Tahoe National Forest. Suit to recover the value of certain timber cut from a railroad section was dismissed on the classification of the land as nonmineral by the Interior Department.

United States *v.* Wildanger and Everett: Eldorado National Forest. Criminal action was brought against the defendants under the State law for the leaving of a camp fire on private land on the shores of Lake Tahoe. A fine of $50 was imposed.

United States *v.* J. & J. Blair Lumber & Land Co.: Eldorado National Forest. Timber trespass was settled without suit by the payment of $626.45.

United States *v.* Weed Lumber Co.: Timber trespass, Shasta National Forest. Settlement was made by payment of $3,000.

United States *v.* J. T. McKay: Grazing trespass, Mono National Forest. Settled by payment of $33.33.

United States *v.* R. R. Scarborough: Fire trespass, Angeles National Forest. The defendant paid the expenses of extinguishing a fire accidentally started, which amounted to $58.25.

United States *v.* G. U. Wray: Timber trespass, Sequoia National Forest. Settled by payment of $181.41.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 207.—The Cypress and Juniper Trees of the Rocky Mountain Region.

Department Bulletin 229.—The Naval Stores Industry.

Department Bulletin 234.—Utilization and Management of Lodgepole Pine in the Rocky Mountains.

Department Bulletin 244.—Life History of Shortleaf Pine.

Unnumbered Publication.—The Use Book.

Unnumbered Publication.—Fire Protection in District 1.

Unnumbered Publication.—Trail Construction on the National Forests.

Unnumbered Publication.—Telephone Construction and Maintenance on the National Forests.

Unnumbered Publications.—Suggestions and Information to Prospective Forest Homestead Applicants.

Accounting Section of the National Forest Manual.

Folder for Klamath National Forest.

Folder for Lassen National Forest.

Folder for Olympic National Forest.

Folder for Rainier National Forest.

Folder for Sawtooth National Forest.

Folder for Sequoia National Forest.

Folder for Siskiyou National Forest.

Folder for Tahoe National Forest.

Folder for Tonto National Forest.

Folder for Umatilla National Forest.

Folder for Whitman National Forest.

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[OCTOBER, 1915.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1915

No. 4. Issued January 15, 1916.

RECEIVED
FEB 8 1916
Division of Forestry
University of California

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

January Field Program, 1916.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Range reserve experiments.—C. E. Fleming, grazing examiner; L. C. Hurtt, grazing assistant, Las Cruces, N. Mex.

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Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–Am, N); Fay G. Clark, deputy forest supervisor.

Sioux.—See South Dakota.

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EXPERIMENT STATIONS.

Fremont, Pike National Forest.— ———, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

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Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF).

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Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

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Washakie (Western Division).—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

DISTRICT 3.

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LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; PAUL P. PITCHLYNN, national forest examiner, fire study; W. H. GILL, geography; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction; C. M. KISSAM, deputy forest supervisor, improvement.

O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester on special assignment to lumber industry study; JOSEPH C. KIRCHER, forest examiner, acting in charge; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies: A. J. JAENICKE, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough and Gordon T. Backus, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU–WF); Clifford W. McKibbin, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (P–WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF).

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU–WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G).

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF); Ausburn H. Douglas, deputy forest supervisor. Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—J. H. KINNEY, forest supervisor, Capitan (WU–WF).

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); O. F. Arthur, deputy forest supervisor.

Santa Fe.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; W. N. SPARHAWK, forest examiner, fire reconnaissance.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—JAMES M. FETHEROLF, in charge; N. B. ECKBO and S. E. BOWER, forest examiners.

GRAZING.—HOMER E. FENN, assistant district forester; C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk; R. E. CONNER, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cacha.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU–Am); L. W. Hastings, deputy forest supervisor; James H. Hull, forest examiner. Grazing reconnaissance: C. E. Favre.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P); H. C. Williams, deputy supervisor; H. B. Marias, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor (on special road work); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Elko (WU–WF).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise Valley (WU–Am, WF).

Toiyabe.—VERNON METCALF, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor. Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello, Idaho.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor. Grazing studies: Bryant S. Martineau.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor. Grazing studies: J. A. Willey.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor. Grazing reconnaissance: A. W. Stevens, L. J. Palmer, T. B. Nichols.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Carl A. Mattesson, deputy forest supervisor. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kansas; Adolph G. Hauge, J. C. Roak, and Lester E. Hitchcock, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); John E. Ingram, forest examiner.

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DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant; G. FLIPPO GRAVATT, scientific assistant, San Francisco, Cal.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—M. A. BENEDICT, forest supervisor, Willows (WU–WF); B. H. Mace, deputy forest supervosir.

Cleveland.—S. W. WYNNE, forest supervisor, Escondido (WU–WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU–WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); Hamilton G. Merrill, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—P. G. REDINGTON, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Edward I. Kotok, forest examiner. Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forester supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, forest inspector.

M. L. MERRITT, assistant in improvement work; C. M. Allen, telephone foreman.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; Norman G. Jacobson, forest examiner.

B. J. FINCH and JAS. T. SCHULYER, senior highway engineers (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT.

USES AND STATIONS.—T. M. TALBOT.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—W. M. H. WOODWARD.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.————, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; R. H. Wallace and Geo. A. Bright, forest examiners; Robert Craig, national forest examiner.

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest examiner; F. A. Matz, national forest examiner.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU. P–Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF); A. G. Jackson, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; S. L. WOLFE, forest examiner, in charge of products.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU–WF); A. C. Christenson, deputy supervisor; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P–So).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P–So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Franklin H. Smith, statistician in forest products. Laboratory: Roy C. Judd, assistant chemist in forest products.

EDITOR.—Lewis C. Everard, assistant editor.

DISTRICT 1.—James H. Bosworth, St. Joe, scaler; Henry F. Wold, Cabinet, clerk; Mabel F. Painton, Helena, and Louise M. Bienz, Blackfeet, clerks (stenographers and typewriters); Paul A. Wohlen, Clearwater, assistant forest ranger; Roscoe Haines, Coeur d'Alene, forest ranger; Inez Hilley, clerk (stenographer and typewriter); Arthur V. Williamson, surveyor-draftsman.

DISTRICT 2.—Samuel M. Ballard, district office, surveyor-draftsman; Ralph W. French, Bridger, clerk (forest); Sadie L. Strotheide, Black Hills, clerk (stenographer and typewriter); Walter D. Rickert, Bridger; Joseph A. Sweeney, Nebraska; Harry D. Hauser, Washakie (E), assistant forest rangers.

DISTRICT 3.—William M. Champayne, draftsman; James J. Daly, messenger; Grace M. Cooper, Coconino, clerk (stenographer and typewriter); Jean E. Hubbs, clerk (stenographer and typewriter).

DISTRICT 4.—Theresa M. Standing, Cache, clerk (typewriter).

DISTRICT 5.—George Frederick Leslie, Sierra, and Charles T. White, Stanislaus, clerks (stenographers and typewriters).

DISTRICT 6.—Arthur L. Norgren and Clyde A. Nettleton, Chugach, forest rangers; Nellie M. Shears, Chugach, clerk; A. E. Mahoney, clerk; and Paul L. Wise, messenger boy.

PROMOTED IN RANK.

DISTRICT 1.—Dwight L. Beatty, Clearwater, assistant forest ranger to deputy forest supervisor; Donald B. McGregor, Lolo, assistant forest ranger to forest ranger.

DISTRICT 3.—Leonard R. Lessel, Tonto; Richard H. Kennerdell and George W. Kimball, Tusayan, assistant forest rangers to forest rangers.

DISTRICT 4.—Isaac W. Oldroyd, Fishlake; Bryant S. Martineau, Santa Rosa; Lemuel Steele, jr., Targhee, assistant forest rangers to forest rangers.

DISTRICT 7.—Ralph C. Huey, Arkansas, deputy forest supervisor to forest supervisor; Ernest J. Mead, Arkansas, forest examiner to deputy forest supervisor; Frank Rush, Wichita, forest ranger to forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—Frederick R. Mason, deputy forest supervisor to forest examiner; Ralph B. Adams, superintendent of telephone construction to telephone engineer.

DISTRICT 2.—B. R. H. d'Allemand, Kansas, forest supervisor to forest examiner, Shoshone.

DISTRICT 5.—Frederick H. Smith, clerk to deputy forest supervisor; Lee R. De Camp, Nickels C. Matzen, and Archer E. Roberts, Cleveland; William B. Davis and Milton D. Morris, Eldorado; Noah W. Coleman, Klamath, forest guards to assistant forest rangers; Horace V. Beeks, Cleveland, clerk to forest clerk; Carl L. Abbott, Monterey, assistant forest ranger to forest ranger.

DISTRICT 7.—Junius St. J. Benedict, White Mountain, forest supervisor to forest examiner.

RESIGNED.

DISTRICT 1.—Edwin C. Mohr, Coeur d'Alene; Albert M. Anderson, St. Joe, scalers; Magnus J. Durant, Clearwater; Fred G. Hart, Jefferson, forest rangers; Frederick F. Clark, Blackfeet; Lloyd A. Fenn, Flathead; Charles F. McGillivray, St. Joe, assistant forest rangers; Ervin F. Whitehead, Clearwater, clerk; W. H. Ransom, Kootenai, forest examiner; Charlotte M. Ellerbrock, clerk (stenographer and typewriter); Myrtle M. Slasor, clerk (stenographer and typewriter); Hugh F. Ellard, lumberman.

DISTRICT 2.—Roscoe B. Weaver, Routt, forest assistant; Norman S. Ashlock Routt, forest ranger; Joseph Thane, San Juan; Walter H. Serfoss, Battlement; Robert F. Evans and Earl W. Hummel, Black Hills; Fred J. Stock, Medicine Bow, assistant forest rangers.

DISTRICT 3.—Walter A. Stenhouse, draftsman; George L. Beckwith, messenger; Addie E. Morse, Coconino, clerk (stenographer and typewriter); William W. Lloyd, Prescott, forest clerk; James D. Bailey, Coconino; Everett A. Marlowe, Prescott; Thomas R. Stewart, Santa Fe, forest rangers; George A. Churchwell Prescott; James R. Ewell, Santa Fe, assistant forest rangers; Helen M. Anderson, clerk (stenographer and typewriter).

DISTRICT 4.—Jesse W. Adamson, Idaho; W. Jones Bowen, George A. Fisher, and Frank W. Thomas, Uinta, forest rangers; Lucas W. Howard Cache; Ray B. Curtis and John N. Moutschka, Palisade; John J. Boyle, Ruby, assistant forest rangers.

DISTRICT 5.—Lillian R. Jones, Modoc, clerk (stenographer and typewriter); Carroll H. Lamb, Sequoia, clerk; Raymond W. Doney, Shasta, assistant forest ranger.

DISTRICT 6.—Tillman F. Foster, Okanogan; Grover C. Simmons, Wallowa; H. S. Newin and H. E. Newman, Santiam, assistant forest rangers; Hugh Mendenhall, Oregon, forest ranger; Florence A. Johnson, clerk; Daisy M. Eager, clerk.

With deep regret announcement is made of the death of George C. Hollister, forest ranger, Santa Barbara, December 2; John W. Evans, forest ranger, Medicine Bow, December 9; William Roland Lynch, assistant forest ranger, Carson, December 13; Edgar L. Palmer, assistant forest ranger, Durango, December 21.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1915, which will be issued probably in April, 1916, is allotted to the Forest Service for its members. Copies will be supplied as in former years to district foresters and supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed, and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

U. S. Geological Survey Professional Papers—

The Geological Survey has furnished the Forest Service with a supply of each of the Professional Papers listed below. Members of the Service desiring copies can get any or all of them, as long as the supply lasts, by sending their names directly to the Forester.

No. 22. Forest Conditions in the San Francisco Mountains Forest Reserve, Arizona, 1904.

No. 23. Forest Conditions in the Black Mesa Forest Reserve, Arizona, 1904.

No. 29. Forest Conditions in the Absaroka Division of the Yellowstone Forest Reserve, Montana, 1904.

No. 30. Forest Conditions in the Little Belt Mountains Forest Reserve, Montana, and the Little Belt Mountains Quadrangle, 1904.

No. 33. Forest Conditions in the Lincoln Forest Reserve, New Mexico, 1904.

No. 73. The Tertiary Gravels of the Sierra Nevada of California, 1911.

No. 76. The San Franciscan Volcanic Field, Arizona, 1913.

No. 78. Geology and Ore Deposits of the Philipsburg Quadrangle, Montana, 1913.

No. 87. Geology and Ore Deposits of Copper Mountain and Kasaan Peninsula, Alaska, 1915.

No. 88. Lavas of Hawaii and their Relations, 1915.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Coeur d'Alene Lumber Co.: Timber trespass, civil, Coeur d'Alene National Forest. Case closed upon payment of $584.48, value of timber cut.

United States *v.* Albert G. Brown: Grazing trespass, civil, Custer National Forest. Case closed upon payment of $110, value of forage consumed.

United States *v.* Scott & Brown: Grazing trespass, civil, Helena National Forest. Case closed upon payment of $73.63, value of forage consumed.

United States *v.* Chicago, Milwaukee & St. Paul Railway Co.: Occupancy trespass, Coeur d'Alene National Forest. Appealed by the defendants to the Supreme Court of the United States from the decision of the Circuit Court of Appeals for the Ninth Circuit.

State of Montana *v.* Frank E. Wineland: Homicide of E. B. Clark, forest ranger, Cabinet National Forest. While hunting, Wineland mistook Clark for a bear and accidentally shot and killed him. Wineland tried at Thompson Falls, Mont., October 25 and 26 on a charge of involuntary manslaughter. The jury returned a verdict of not guilty.

United States *v.* Mike Anderson: Grazing trespass, criminal, Jefferson National Forest. Violation of Forest Service regulations. Complaint sworn to before United States commissioner. Upon recommendation of forest supervisor, and with consent of United States attorney, proceedings dismissed.

United States *v.* Pliny E. Lyndes: Occupancy trespass, civil, Jefferson National Forest. Lyndes sold his ranch and left the country. Action against Lyndes was, therefore, unnecessary and case closed.

United States *v.* Lars B. Halleland: Grazing trespass, civil, Absaroka National Forest. United States attorney authorized by Attorney General to proceed by injunction against Halleland. Halleland removed his stock from the Forest and proceedings not instituted. Case closed.

United States *v.* Lake Shore Gold Mining Co.: Timber trespass, civil, Madison National Forest. Upon recommendation of the Department of Agriculture the Attorney General directed the United States attorney for the district of Washington to discontinue consideration of the claim of the United States against the company. Case closed.

United States *v.* Great Northern Railway Co., Winston Bros. Co., and C. W. Werdenhoff: On December 8, 1915, Federal Judge Bourquin granted the plaintiff's motion to strike the cooperative agreement of April 23, 1910, with the Great Northern Railway Co. from the defendants' answer.

Law Cases in District 2—

United States *v.* W. F. Healy: Fire trespass, Michigan National Forest. Settled by payment of $29.06.

United States *v.* Andrew Mickelson: Timber trespass, Sundance National Forest. Judgment for $72.85, and costs amounting to $87.89, paid November 4, 1915.

United States *v.* T. C. Moritz and Frank Wyman: Fire trespass, criminal, Gunnison National Forest. The grand jury sitting at Pueblo, Colo., on October 9, 1915, failed to return an indictment.

Letters patent for an improvement in planting boards were granted to the Government of the United States and the people thereof, for the term of 17 years from November 23, 1915, on the application of William H. Mast, formerly connected with the Gunnison National Forest.

Law Cases in District 3—

United States *v.* Robert Eanes: Fire trespass, Alamo National Forest. On October 8, 1915, defendant was indicted. Pleaded guilty. Sentenced to 90 days in jail and to pay costs.

United States *v.* Feliciano Chavez: Grazing trespass, Manzano National Forest. Settled by payment of $15.63 actual and $9.37 punitive damages.

Ralph H. Cameron *v.* Weedin & Birdno (register and receiver): Suit to enjoin Land officials from proceeding with hearing involving mining locations within the Grand Canyon National Monument. Plaintiff filed second amended bill, making the Commissioner of the General Land Office a party and secured service on this official, who was temporarily in Arizona. December 8, 1915, service on Commissioner of the General Land Office quashed, application for temporary injunction denied, and complaint dismissed. Plaintiff has perfected an appeal to the United States Supreme Court.

Ralph H. Cameron *v.* W. W. Bass: Suit by claimant of canceled mining location to enjoin special use permittee from occupying a portion of the area formerly embraced in the location. November 15, 1915, Superior Court of Coconino County, Ariz., dissolved temporary injunction heretofore granted and dismissed Cameron's complaint.

United States *v.* John Rock, R. T. and G. W. Fenter: Grazing trespass, Coronado National Forest. Tried by jury November 30 to December 2. Judgment in the sum of $412.50 actual and $100 punitive damages, and costs—the latter amounting to $634.45.

United States *v.* J. E. Wise: Grazing trespass, Coronado National Forest. Tried by jury December 9. Judgment for defendant.

Law Cases in District 4—

United States *v.* Covey & Blaney: Grazing trespass, Caribou National Forest. Settlement made in sum of $174, $60 actual and $40 punitive

damages, which has been approved by the Attorney General and case closed.

United States *vs.* L. C. Crone: Grazing trespass, Payette National Forest. Defendant pleaded guilty in United States district court, was fined $50, which was paid. Case closed.

United States *v.* David Edwards: Grazing trespass, Weiser National Forest. Actual damages of $6.12 paid, in accordance with demand, and case closed.

United States *v.* Servel Bros. and John Bicois: Grazing trespass, criminal, Minidoka National Forest. Each of three defendants fined $25 in United States district court. Case closed.

United States *v.* Servel Bros. and John Bicois: Grazing trespass, Minidoka National Forest. Defendants paid $180 actual damages. Case closed.

United States *v.* Charles Thornburg: Grazing trespass, Uinta National Forest. Payment of $49.21 actual damages received. Case closed.

United States *v.* Lee Vader: Grazing trespass, Sawtooth National Forest. Payment of $5 actual damages made. Case closed.

United States *v.* C. J. Weaver et al.: Grazing trespass, Minidoka National Forest. Payment of $21 actual damages received. Case closed.

United States *v.* Karl Peschl: Fire trespass, Palisade National Forest. Defendant pleaded guilty in United States district court at Pocatello, Idaho, October 21, 1915, was fined $35. Case closed.

United States *v.* Jose Espitallis: Grazing trespass, Minidoka National Forest. Payment made of $19.50 actual damages and $25 punitive. Case closed.

United States *v.* Lafayette Utley: Property trespass, Wasatch National Forest. Breaking of ranger station. Action taken under regulation T–6–(B). Defendant pleaded guilty before United States district court at Salt Lake City and was sentenced to 30 days in jail. Case closed.

United States *v.* Max Parks: Property trespass, criminal, Boise National Forest. Action taken under regulations T–6 (B). Defendant pleaded guilty to cutting of telephone line before Judge Dietrich and was fined $25. Case closed.

United States *v.* Utah Power & Light Co. (Telluride Power Co.) (390 and 394): Occupancy trespass, Cache National Forest. Decision of court of appeals rendered in favor of Government. Reaffirms 209 Fed., 554.

United States *v.* Utah Light & Traction Co. (397): Occupancy trespass, Wasatch National Forest. Decision of court of appeals remanding case for further proceedings in accordance with decision in Utah Power & Light Co.'s case.

Law Cases in District 5—

United States *v.* Carson and Tahoe Lumber and Fluming Co.: Timber trespass, Eldorado National Forest. The company has deposited $3,000

in the subtreasury as a compromise offer of settlement. The offer of settlement has been transmitted to the Secretary of the Treasury by the United States attorney.

United States *v.* Wood & Sheldon Lumber Co.: Timber trespass, Shasta National Forest. Final payment of $679.35 was received and the case closed.

United States *v.* Jas. and Benjamin Garcia: Grazing trespass, Monterey National Forest. Payment of $13.25 actual damages, $25 punitive damages, and $14 costs was made.

United States *v.* Truckee Lumber Co.: Timber trespass, Tahoe National Forest. Payment of $307.68 was received, which represented the last installment in settlement of the trespass.

United States *v.* Consolidated Reservoir and Power Co.: Timber trespass, Angeles National Forest. Payment of $183.58 was received, being settlement for timber cut in the vicinity of the company's ditch.

United States *v.* George Blodgett: Fire trespass, Cleveland National Forest. Indictment returned by the Federal grand jury.

United States *v.* Verdi Lumber Co.: Timber trespass, Tahoe National Forest. Payment of $23 was received in settlement.

United States *v.* Samson Ynchauspe: Grazing trespass, Sierra National Forest. Payment of $50 was received in settlement.

United States *v.* Joseph Giraud: Grazing trespass, Mono National Forest. Payment of $41.36 was received in settlement.

United States *v.* Parra, Mariano & Nemecio: Grazing trespass, Monterey National Forest. Payment of $16.18 was received in settlement.

United States *v.* John Etchegarry: Grazing trespass, Mono National Forest. Payment of $33.33 was received in settlement.

United States *v.* Sherlock, O'Connor & Dennehy: Grazing trespass, Modoc National Forest. Payment of $11.45 was received in settlement.

United States *v.* Antone Inda: Grazing trespass, Mono National Forest. Payment of $36.67 was received in settlement.

United States *v.* R. E. Cram: Fire trespass, Angeles National Forest. Payment of $32.94 was received in settlement.

United States *v.* Thos. S. Smith: Grazing trespass, Sequoia National Forest. Payment of $92.40 was received in settlement.

United States *v.* Pacific Gas and Electric Co.: Timber trespass, Eldorado National Forest. The sum of $1,297 paid in full settlement.

Law Cases in District 6—

United States *v.* Walter B. Davidson: On September 28 defendant plead guilty, in the United States District Court for Oregon, to cutting Forest Service telephone line on the Oregon National Forest and was fined $10.

United States *v.* Joseph Roberts: On November 9 defendant was arrested at Stayton, Oreg., charged with breaking into Seven Mile

Ranger Station on the Santiam National Forest and stealing therefrom property belonging to the United States; also with cutting telephone line leading to said station. On November 13 he plead guilty to a charge of larceny in the county court and was fined $25.

On December 8 the United States district attorney for the western district of Washington advised this office of the payment by the Great Northern Railway Co. of judgment of November 8 in the United States court for said district, amounting to $719.95 damages and $25.20 costs, in payment for damage suffered by fire on the Snoqualmie National Forest set by contractors working in the employ of said company.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 272.—The Southern Cypress.

Department Bulletin 285.—The Northern Hardwood Forest.

Department Bulletin 286.—Strength Tests of Structural Timber Treated by Wood-Preserving Processes.

Department Bulletin 299.—The Ashes: Their Characteristics and Management.

Department Bulletin 308.—Shortleaf Pine: Its Economic Importance and Forest Management.

Department Bulletin 316.—Willows: Their Growth, Use, and Importance.

Unnumbered Publication.—Report of the Forester, 1915.

Unnumbered Publication.—Government Forest Work.

Unnumbered Publication.—National Forests by Districts.

Unnumbered Publication.—Water-Power Projects and Telephone, Telegraph, and Power-Transmission Lines on the National Forests.

Folder for Siuslaw National Forest.

Folder for Cleveland National Forest.

Folder for Deschutes National Forest.

Folder for Pike National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[JANUARY, 1916.]

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WASHINGTON : GOVERNMENT PRINTING OFFICE : 1916

PROPERTY OF DIVISION

No. 5. Issued April 15, 1916.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1916.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
O. C. MERRILL, chief engineer.
T. W. NORCROSS, assistant chief engineer.
R. R. RANDELL, assistant engineer.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.
ARTHUR C. RINGLAND, forest inspector.

ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

36811—16——1

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G ANDERSON, inspector of records.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; AUSTIN CARY, logging engineer; HARRY IRION, office assistant.

STATE COOPERATION.—J. C. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; H. J. Kaestner, State forester, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief deputy forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; ———, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; WILL C. BARNES, assistant forester; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Albuquerque, N. Mex.

Range reserve experiments.—Jornado Reserve: L. C. Hurtt, grazing assistant, in charge; Clarence L. Forsling, grazing assistant, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest assistant, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, G. E. Clement.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director; Carlisle P. Winslow, engineer in forest products.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THELÉN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; Sidney D. Wells, H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Textor.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt, Robt. E. Prince, P. R. Hicks, M. C. Jensen.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washing, D. C. Correlation of Lumber Grades and Consumers' Specifications, divided between members of office. Industrial Statistics, Franklin H. Smith. Departmental Cooperation, Inspection and Revision of Government Specifications, J. T. Harris and R. K. Helphenstine, jr. Production of Lumber and Forest Products (in cooperation with the National Lumber Manufacturers' Association), J. C. Nellis and A. H. Pierson. Tight and Slack Cooperage Investigations, J. T. Harris. Box Industry Investigations, J. C. Nellis. Uses of Foreign Woods, W. D. Brush. Consumption of Wood Preservatives in 1915, J. T. Harris and R. K. Helphenstine, jr. Mechanical Utilization of Mill and Factory Waste, R. K. Helphenstine, jr. Market Summaries and Lumber and Stumpage Price Records, J. C. Nellis. Collaborator, A. B. Strough, Albany, N. Y.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Lenoir, N. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, H. S. Davis, forest examiners, Gorham, N. H.; Potomac Area, W. R. Barbour, forest examiner, Woodstock, Va.; Unaka Area, J. L. Cobbs, jr., forest examiner, Johnson City, Tenn.; Boone Area, E. M. Brunner, forest examiner, Lenoir, N. C.; Mount Mitchell Area, R. J. Noyes, forest examiner, Marion, N. C.; Pisgah Area, W. J. Damtoft, Asheville, N. C.; Nantahala Area, H. L. Steffens, forest examiner, Andrews, N. C.; Cherokee Area, S. H. Thompson, forest examiner, Etowah, Tenn.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C. White Mountain Area, Arthur E. Hoxie, examiner of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. Unaka Area, W. N. Sloan, examiner of surveys, Johnson City, Tenn. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C. Nantahala Area, J. W. Fox and James Denman, examiners of surveys, Andrews, N. C. Savannah Area, Harold G. Wood, examiner of surveys, Highlands, N. C. Boone Area, Frederick A. Gardner and A. M. Ockerblad, examiners of surveys, Lenoir, N. C. Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; James H. Swann, Benton, Tenn.; John E. Taylor, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Lynchburg, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, telephone engineer.

FIRE DETECTION.—JOHN B. SOMERS.

FIRE CONTROL.—D. M. CONNER.

IMPROVEMENTS.—FAY G. CLARK.

MAINTENANCE.—GARDNER I. PORTER.

GEOGRAPHY.—F. E. BONNER. G. H. LAUTZ, entry surveys; C. F. FARMER, topographic surveys.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—S. V. FULLAWAY, JR., and R. C. EGGLESTON.

LOGGING ENGINEERING.—J. W. GIRARD, lumberman; F. R. MASON and JOSEPH KITTREDGE, forest examiners.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—H. S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. L. Rockwell and Chas. K. McHarg, jr., forest examiners.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N).

St. Joe.—FRED W. BEIER, acting forest supervisor, St. Maries (Continental–WF).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); T. E. Miller, deputy forest supervisor.

Cabinet.—CARL M. STEVENS, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and A. B. Hastings, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); John C. Ketridge, forest examiner.

Lewis and Clark.—JUSTIN K. DWINELLE, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N); Dwight L. Beatty, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—ARTHUR C. HAINES, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—ARTHUR C. HAINES, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN via Priest River); H. T. Lindsay, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester; JOHN MCLAREN, fire protection; H. R. KYLIE, telephone engineer.

A. E. PALEN, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—F. H. CARROLL.

GEOGRAPHY.—ROBT. E. PRATT.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLASS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester. THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—J. L. GLENDENING, acting in charge, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR T. UPSON, forest supervisor, Hot Sulphur Springs (WU–Ad); D. S. Jeffers, deputy forest supervisor.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—W. R. FRASER, acting forest supervisor, Durango (WU–WF); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—W. I. HUTCHINSON, forest supervisor, Westcliffe (WU–WF); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU–WF); A. F. C. Hoffman, forest examiner.

Sopris.—W. G. BAXTER, acting forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF).

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad). Bessey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—ANDREW G. STOCKWELL, acting forest supervisor, Sheridan (WU–Ad).

Black Hills.—See South Dakota.

Bonneville.—C. G. POOLE, forest supervisor, Lander (WU–Am).

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P–Am); F. B. Notestein, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); B. R. H. d'Allemand, forest examiner.

Washakie (Eastern Division).—C. G. POOLE, forest supervisor, Lander (WU–Am); Michael J. Sweeney, forest examiner.

Washakie (Western Division).—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

P. G. REDINGTON, district forester; LYLE A. WHITSIT, hydroelectrical engineer; ALDO LEOPOLD, forest examiner (detail), information and game protection.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest supervisor, assistant in operation; PAUL P. PITCHLYNN, national forest examiner, fire study; W. H. GILL, geography; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction; CHAS. H. KISSAM, deputy forest supervisor, improvement.

O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Thomas E. McCullough and Gordon T. Backus, forest examiners.

Chiricahua-Coronado.—ROBERT J. SELKIRK, acting forest supervisor, Tucson (WU–WF); Clifford W. McKibbin, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF).

NEW MEXICO.

Alamo-Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); R. F. Balthis, deputy forest supervisor.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G).

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF). Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); O. F. Arthur, deputy forest supervisor.

Santa Fe.—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—JAMES M. FETHEROLF, in charge; N. B. ECKBO and S. E. BOWER, forest examiners. Pocatello Nursery: Arthur P. Say, ranger, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Brighton, Utah (on Wasatch National Forest). Beaver Creek Nursery: Asa L. Brower, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—R. E. CONNER, property clerk; H. A. BEAUVERD, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—L. W. HASTINGS, acting forest supervisor, Montpelier (WU–Am); James H. Hull, forest examiner. Grazing studies: C. E. Favre and W. V. Evans.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU–P); H. C. Williams, deputy supervisor; H. B. Maris, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); Lawrence J. Phelan, deputy forest supervisor (on special road work); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Elko (WU–WF).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU–WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise Valley (WU–Am, WF).

Toiyabe.—VERNON METCALF, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor. Grazing studies: L. T. Palmer.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU–WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU–WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor. Grazing studies: Bryant S. Martineau.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor. Grazing studies: J. A. Willey and R. J. Becraft.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor. Grazing studies: A. W. Stevens and T. B. Nichols.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P–Am, WF); Carl A. Mattesson, deputy forest supervisor; Wm. F. Tribe, J. C. Roak, and Lester E. Hitchcock, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am): John E. Ingram, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant; G. FLIPPO GRAVATT, scientific assistant, San Francisco, Cal.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant; Douglas K. Noyes, forest examiner.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Willows (WU–WF); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).
Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF).
Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); C. H. Ensign, scaler, reconnaissance.
Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Oscar M. Evans, forest examiner.
Mono.—See Nevada.
Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).
Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.
Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).
Sequoia.—S. W. WYNNE, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.
Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); M. R. Tillotson, deputy forest supervisor; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery, Fred W. Graham, forest ranger, in charge, McCloud.
Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.
Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.
Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.
Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).
Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, national forest inspector.

M. L. MERRITT, assistant in improvement work; C. M. Allen, telephone engineer.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; Norman G. Jacobson, forest examiner.

B. J. FINCH, senior highway engineer (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT.

USES AND STATIONS.—FRANK A. LAW, JR.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—W. M. H. WOODWARD.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; R. H. Wallace and Geo. A. Bright, forest examiners; Robert Craig, national forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker, forest examiner; F. A. Matz, national forest examiner.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF); A. G. Jackson, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; FRANCIS KIEFER, assistant district forester; S. L. WOLFE, forest examiner, in charge of products.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU–WF); A. C. Christenson, deputy supervisor; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

DISTRICT 1.—Lloyd G. Hornby, Flathead, forest assistant; Frederick Cappel, Gallatin, George F. Mills, Beartooth, clerks (forest); Mrs. Nellie Lee Saylor, Absaroka, clerk (stenographer and typewriter); John W. Pierson, messenger boy.

DISTRICT 2.—Ruth A. Dunnington, Black Hills; William J. Trembath, Harney; Claude I. Depuy, Montezuma, clerks (stenographers and typewriters).

DISTRICT 3.—Cecile M. Wandby, Carson, clerk (stenographer and typewriter); Ross Earl Fortney, Tusayan, clerk (forest); Thomas C. Turk, Alamo; Thomas Jefferson Ground and Edgar L. Perry, Carson; Will J. Brown, Coconino; Robert B. Ewing, Clifford R. Minner, Charles L. Rak, and Robert C. Salton, Datil; Theron R. Littlefield, Tonto, assistant forest rangers; George L. Beckwith and Evelyn Grace Lackie, clerks (stenographers and typewriters); Harry M. Frank, clerk.

DISTRICT 4.—Charles E. Russell, Manti; Harrold C. Haglund, Powell; William B. Crites, Sevier, clerks (forest); Aaron P. Christiansen, Uinta, assistant forest ranger.

DISTRICT 5.—Abraham L. Ginsburg, Plumas; George J. Austin, Feather River Experiment Station; Richard L. Wiley, California; John A. O'Connell, Modoc, clerks (stenegraphers and typewriters); Joseph C. Dort, assistant engineer; Frank Keegan and Raymond G. Kelly, messengers.

DISTRICT 6.—Moritz L. Mueller, Snoqualmie, assistant forest ranger; James J. Randall, Minam, clerk.

PROMOTED IN RANK.

DISTRICT 1.—John F. Forsythe, Kaniksu, deputy forest supervisor to forest supervisor; Emil A. Anderson, Blackfeet, assistant forest ranger to forest ranger.

DISTRICT 2.—Huber C. Hilton, Michigan, forest examiner to forest supervisor.

DISTRICT 3.—Paul G. Redington, forest supervisor to district forester; Ausburn H. Douglas, Datil, deputy forest supervisor to forest supervisor; Clifford W. McKibbin, deputy forest supervisor to forest examiner; Edward G. Miller, Datil, forest ranger to deputy forest supervisor; Francis P. Porcher, district office; William L. Scofield, Apache; Ward Shepard, Datil, assistant forest rangers to forest rangers.

DISTRICT 4.—Charles DeMoisy, jr., Ashley; Samuel A. Macfarlane, Dixie; Fred O. Johnson, Uinta, assistant forest rangers to forest rangers.

DISTRICT 5.—Hamilton G. Merrill, deputy supervisor to forest supervisor; Thos. W. Sloan, Angeles, forest ranger to deputy forest supervisor; James B. Stephenson, Cleveland; Lee Slinkard, Sequoia, assistant forest rangers to forest rangers; George E. Poore, Tahoe; Francis D. Bucklew, Trinity, forest guards to assistant forest rangers.

DISTRICT 6.—W. W. G. Hastings, Deschutes, deputy forest supervisor to forest supervisor; Jos. L. Mackechnie, Siuslaw, assistant forest ranger to forest ranger; Lewis E. McDaniels, Okanogan, assistant forest ranger to deputy forest supervisor; Melvin L. Merritt, forest supervisor to forest examiner.

DISTRICT 7.—Edward V. Clark, Ozark, national forest examiner to forest supervisor; Francis Kiefer, forest supervisor to assistant district forester.

CHANGE IN DESIGNATION.

FORESTER.—Arthur C. Ringland, district forester, district 3, to forest inspector.

DISTRICT 1.—Mallory N. Stickney, Bitterroot, forest supervisor to deputy forest supervisor; J. B. Taylor, Deerlodge; Lloyd G. Hornby, Flathead, forest assistants to assistant forest rangers.

DISTRICT 3.—Paul P. Pitchlynn, Sitgreaves, forest examiner to forest supervisor.

DISTRICT 4.—Bruce L. Coulter, Teton; Thomas V. Pearson, Wyoming, forest clerks to assistant forest rangers.

DISTRICT 5.—Eugene E. Clark, Ivan A. Cuff, and Arthur W. Phillips, Cleveland, forest guards to assistant forest rangers; Elmore W. Searcy, Cleveland, forest ranger to assistant forest ranger.

DISTRICT 6.—Clark W. Gould and Claude E. Greider, statisticians in forest products to forest examiners; Robert L. Campbell, Washington, clerk to deputy forest supervisor.

DISTRICT 7.—Harold M. Sears and Chas. E. Beaumont, Arkansas, forest examiners to assistant forest rangers.

RESIGNED.

ACQUISITION.—Walter H. Shirey and Malcolm G. Slarrow, transitmen.

GRAZING.—Chas. E. Fleming, grazing examiner.

RESEARCH.—Laboratory, Harry D. Tiemann, engineer in forest products; Roy C. Judd, assistant chemist in forest products.

DISTRICT 1.—Edward A. Holcomb, St. Joe, forest supervisor; Charles E. Brackett, Custer; D. William Arrison, Nezperce, forest rangers; Jacob H. Camp, Custer; Ross L. Stalcup, Madison, assistant forest rangers; John F. Gillings, Beartooth, clerk (forest); Mrs. Melissa S. Wilson, Absaroka, clerk (stenographer and typewriter).

District 2.—Sadie L. Strotheide, Black Hills, clerk (stenographer and typewriter); Matthew J. Bedall, Montezuma, clerk (forest); Wm. P. Piper, Michigan, forest examiner.

District 3.—Chalmers McConnell, Alamo, clerk (forest); Julia Ziegler, Carson, clerk (stenographer and typewriter); Jay L. B. Taylor, Prescott; Earl B. Young, Santa Fe, forest rangers; Dayton G. Darrah, Carson; Charles A. Firth, Tonto, assistant forest rangers; Frank Harrison, Fort Valley Experiment Station, clerk (forest).

District 4.—Albert M. Smith, property clerk and purchasing agent; George G. Bentz, Caribou, forest supervisor; Joseph M. Moody, Dixie; Frank Athel Herrell, Santa Rosa; Elias H. Smith, Sevier; James A. Wholey, Toiyabe, forest rangers; Lorin A. Loomis, Palisade; Levon H. Koomey, Wasatch; Leo. F. Morris, Weiser, assistant forest rangers; Harry L. Strembel, Sevier, clerk (forest).

District 5.—Harry J. Blonder and H. J. S. Strickland, messengers; Arthur H. Wixom and John R. Bauer, California; Floyd V. Wike, Santa Barbara, assistant forest rangers; Sylvester W. Strothman, California, forest examiner; Harold C. Haglund, California; Lillian R. Jones, Modoc; Chester F. Paul, Modoc; Edmund E. Meyer, Plumas, clerks (stenographers and typewriters).

District 6.—Maud V. Ferbrache, Snoqualmie, clerk; Verne L. Ketchum, surveyor-draftsman; Charles H. Wolverton, Chelan, assistant forest ranger; Lena M. Ash, clerk.

With deep regret announcement is made of the death of Edward J. Leary, clerk, California, February 22, 1916.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Reprint of Geological Survey Guidebooks—

The Geological Survey plans to reprint its series of Guidebooks describing the geological formations and other topographic features along the principal western railroads. The series consists of four separate parts, as follows:

Part A. The Northern Pacific Route.
Part B. The Overland Route.
Part C. The Santa Fe Route.
Part D. The Shasta Route and Coast Line.

When issued, copies will be furnished to members of the Service who have use for them. In order that a list may be compiled, those who desire copies should send their names to the Forester, specifying which part is wanted. These requests should be transmitted as promptly as possible.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Great Northern Railway Co., Winston Brothers Co., and C. W. Werdenhoff: Fire trespass, Lewis and Clark National Forest. January 17, 1916, defendants filed amended answer. Motion to strike from amended answer filed and briefs submitted in connection therewith. The testimony of former Supervisor Bunker was taken in Fitchburg, Mass., in February, and the testimony of the Sande brothers was taken at Red Deer, Alberta, in March.

United States *v.* William Young: Occupancy trespass, civil, Gallatin National Forest. From 1905 to 1915 Young leased from the State of Montana sec. 16, T. 3 N., R. 6 E., and paid the State $487.50. This land is within the Gallatin National Forest. Upon request of the Forest Service, the State made settlement. Case closed in law March 18, 1916.

United States *v.* Ferris & Burden: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $4, value of forage consumed.

United States *v.* Johnnie Gross, jr.: Occupancy trespass, civil, Sioux National Forest. Letter written to trespasser calling for $59.75, sent by district forester.

Law Cases in District 2—

United States *v.* George Korab: Timber trespass, Black Hills National Forest. Case closed upon payment of $59.26, value of timber cut.

United States *v.* J. F. Church: Grazing trespass, Arapahoe National Forest. Case closed upon payment of $41.27, value of forage consumed.

United States *v.* O. P. Olson: Grazing trespass, Hayden National Forest. Settled by payment of $45.57 actual and $100 punitive damages.

United States *v.* Carbon Timber Co.: Timber trespass, Medicine Bow National Forest. Compromise agreement entered into July 8, 1911, involving the payment of $23,572.74, and building of a $20,000 fire line by the company. All other conditions of the agreement of settlement having been complied with by the company, the case was closed upon final payment of $4,000 by the American Surety Co.

United States *v.* Colorado Power Co.: Occupancy trespass, Holy Cross National Forest. On January 11, 1916, the District Court for the District of Colorado decided the case. The court held that such rights as the defendant company has to occupy the complainant's lands are dependent upon the terms of the act of February 15, 1901 (31 Stat., 790); that the United States has the right to impose reasonable restrictions and require payment of reasonable fees for the use and enjoyment of its lands under the provisions of such act; that the fees imposed, which amounted to a charge of approximately $100 per month, were not excessive or unreasonable; that the method or means by which the Secretaries of the Interior and Agriculture sought to ascertain the amount of such fees, viz, by subjecting the defendant's business to public surveillance, etc., was beyond the authority given by the act of 1901, supra; that the nonpayment of such fees did not, therefore, justify or warrant a revocation of the permit; that the attempted revocation of the permit on March 3, 1909, was void; that the original permit is, therefore, valid and continues in effect; that the defendant is required to comply with such reasonable regulations as the Secretary of Agriculture may impose upon the maintenance and operation of the plant. The court held also that the construction of a tunnel instead of a ditch did not justify or warrant a revocation of the permit, nor did the further fact that the line of the tunnel departed from the proposed line of the ditch justify or warrant such revocation. Upon stipulation of counsel for the United States and for the defendant company the date for entering final decree has been continued until July 8, 1916.

United States *v.* I. N. Pepper: Breach of timber sale contract, Uncompahgre National Forest. Judgment by default for the sum of $31.75 damages and $5.50 interest, together with $31.50 costs.

United States *v.* Tin Cup Gold Dredging Co.: Timber settlement, Gunnison National Forest. Case closed upon payment of $58.87, value of timber cut.

Law Cases in District 3—

United States *v.* Hoopes Bros.: Timber trespass, Crook National Forest. Settled by payment of $25.25, full value of timber.

United States *v.* A. & B. Schuster: Grazing trespass, Apache National Forest. Settled by payment of $50.

United States *v.* Simion Landa: Grazing trespass, Prescott National Forest. December 29, 1915, defendant held for grand jury under $250 bond. March 25, 1916, defendant entered plea of guilty and paid fine of $50. He also served several weeks in jail because of his inability to furnish bond.

United States *v.* W. H. Collie: Occupancy trespass, Coronado National Forest. Suit for injunction filed.

United States *v.* Medler Bros.: Grazing tresspass, Tonto National Forest. Suit for injunction and damages filed. Defendants' motions to dismiss and to make complaint more definite and certain denied March 6. United States' application for temporary injunction to compel the removal of stock at spring roundup argued March 13 and taken under advisement, the court announcing, however, that injunction would be granted unless defendants removed at least 500 head of stock by April 1.

United States *v.* R. H. Cameron: Occupancy trespass, Tusayan National Forest. Suit for injunction against illegal occupancy of canceled mining location. March 25, defendant's motion to dismiss or transfer to the law side denied.

Cameron *v.* Bass: Injunction proceedings, Tusayan National Forest. Suit by claimant of canceled mining location to enjoin special use permittee from occupying portion of area formerly embraced in location. Notice of appeal to Supreme Court of Arizona filed by defendant. Supersedeas bond fixed at $2,000.

United States *v.* Robert Eanes: Fire trespass, Alamo National Forest. Defendant served 90 days in jail and paid costs amounting to $170.90.

United States *v.* Wm. Sproull: Grazing trespass, Tonto National Forest. Final decree enjoining defendant from grazing hogs in trespass entered January 8.

United States *v.* John Rock, R. T. & G. W. Fenter: Grazing trespass, Coronado National Forest. Settled by payment of $458.70 on account of judgment.

United States *v.* L. J. Chapman: Timber trespass, Carson National Forest. Case closed on payment of $13.02, the value of the timber cut.

United States *v.* S. W. Jaques: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $5.19, the value of the forage.

United States *v.* A. J. Merrell: Timber trespass, Sitgreaves National Forest. Case closed on payment of $5.60, the value of the timber cut.

United States *v.* A. Eichwald: Grazing trespass, Santa Fe National Forest. Case closed on payment of $7.50, the value of the forage.

United States *v.* M. N. & Ella Eldridge: Grazing trespass, Tonto National Forest. Case closed on payment of $35.15, the value of the forage.

United States *v.* H. R. Pitts: Grazing trespass, Tonto National Forest. Case closed on payment of $26.63, the value of the forage.

United States *v.* J. E. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of $278.75, the value of the forage.

United States *v.* R. J. & J. M. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of $700, the value of the forage.

United States *v.* C. E. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of $138.75, the value of the forage.

United States *v.* E. A. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of $65, the value of the forage.

United States *v.* Cook & Laird: Grazing trespass, Prescott National Forest. Case closed on payment of $468.75, the value of the forage.

United States *v.* Stella L. Cook: Grazing trespass, Prescott National Forest. Case closed on payment of $156.25, the value of the forage.

United States *v.* Hooker & Kellogg: Grazing trespass, Prescott National Forest. Case closed on payment of $312.50, the value of the forage.

Law Cases in District 4—

United States *v.* C. C. Creer: Grazing trespass, Uinta National Forest. Defendant paid $50 actual damages. Case closed.

United States *v.* John M. Pulsipher: Grazing trespass, Dixie National Forest. Defendant paid $202.09 on account of damages sustained by the Government, and case closed.

United States *v.* Ralph L. Call: Grazing trespass, Boise National Forest. Payment made of $6 actual damages, $10 punitive damages, and $5.60 costs of suit. Case closed.

United States *v.* Myron L. Crandall: Fire trespass, Uinta National Forest. Settlement made in sum of $61.82, being expense to the Forest Service in extinguishing a fire set by trespasser upon his lands and negligently allowed to spread to National Forest lands.

United States *v.* Marciel Madarieta: Fire trespass, Minidoka National Forest. Defendant arrested on warrant sworn to by supervisor and put under $100 bond to appear February 14 before United States grand jury at Boise. Grand jury was postponed, but no notice

having been sent to defendant he put in an appearance. The court, in the absence of any representative of the Forest Service, accepted his statements as to the circumstances and imposed a fine of $10 and costs, which was paid.

United States *v.* Myrl Byrd: Property trespass, Cache National Forest. Defendant arrested on a charge of breaking into a ranger station and stealing Government property. He admitted his guilt and in default of $1,000 bond fixed by the United States commissioner he was lodged in jail at Pocatello, Idaho. Was bound over to the grand jury.

Law Cases in District 5—

United States *v.* Trinity Asbestos Mining Co.: Timber trespass, Shasta National Forest. On March 6, 1916, the Federal court, Northern District of California, rendered judgment in favor of the United States against this company in the sum of $227.73 and costs. This amount represented the value of timber taken from mining claims and used on an adjacent mill site for a reduction works, or quartz mill, and a sawmill, the defendant claiming these buildings as improvements of the mining claims under the act of June 30, 1878 (20 Stat., 89).

United States *v.* Eldorado Lumber Co.: Timber trespass, Eldorado National Forest. This company, which was adjudged a bankrupt in 1909, paid $500 in full settlement for timber cut along the right of way of its logging railroad.

United States *v.* Steve Andrews: Fire trespass, Inyo National Forest. Payment was made of $15.83, expenses incurred in controlling the fire.

United States *v.* Sloat Lumber Co.: Timber trespass, Plumas National Forest. Defendant paid $161.37 in full settlement of the trespass.

United States *v.* Kinsey-Gruss Mining Co.: Timber trespass, Plumas National Forest. Payment of $148.24 was accepted as compromise of the claim, and case closed.

United States *v.* Lee Rankin: Grazing trespass, Sequoia National Forest. Case settled by payment of $99.29 actual and $75 punitive damages.

United States *v.* W. A. Rankin: Grazing trespass, Sequoia National Forest. Case settled by payment of $177.31 actual and $100 punitive damages.

United States *v.* J. H. Lucas: Timber trespass, Lassen National Forest. Payment of $109.22 was made in full settlement of claim.

United States *v.* G. B. Day: Grazing trespass, Mono National Forest. Settlement was made in the sum of $19.

United States *v.* C. E. Day: Grazing trespass, Mono National Forest. Settlement was made in the sum of $18.

United States *v.* C. B. Parker: Grazing trespass, Modoc National Forest. Settlement was made in the sum of $83.33.

Law Cases in District 6—

United States *v.* Matt Smith: Fire trespass, Wenatchee National Forest. Payment of $201.12, covering $80.86 damage and $120.26 expense of fighting fire, received and case closed.

United States *v.* Clarence N. Bush: Occupancy trespass, Snoqualmie National Forest. On March 6 the United States District Court for the Western District of Washington entered a decree of injunction in this case. The defendant continued to occupy the land embraced in his former squatter claim which had been declared invalid.

United States *v.* Morrison et al.: On February 21 the Supreme Court of the United States reversed the decision of the Circuit Court of Appeals and affirmed that of the United States District Court for Oregon and held that the State of Oregon did not take title to school sections embraced within a Forest withdrawal after survey in the field and after approval of the survey by the surveyor general but prior to the acceptance of the survey by the Commissioner of the General Land Office.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 327.—The Spruce and Balsam Fir Trees of the Rocky Mountain Region.

Farmers' Bulletin 711.—The Care and Improvement of the Woodlot.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[APRIL, 1916.]

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4; July (25); Oct. (56–57); Jan. (85–86); Apr. 117–118).
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4; Oct. (57).
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timber, district 1; Jan. (84).
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3; July (24); Apr. (115–116).
5; July (25); Oct. (57); Jan. (86–87). Apr. (118).

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1916

No. 6. Issued July 15, 1916.

FORESTRY
COLLEGE OF AGRICULTURE
UNIVERSITY OF CALIFORNIA

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE,
HENRY S. GRAVES, Forester.

July Field Program, 1916.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

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FINDLEY BURNS, in charge of technical review.
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EUGENE S. BRUCE, expert lumberman.
ARTHUR C. RINGLAND, forest inspector.

ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, inspector of records.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; AUSTIN CARY, logging engineer; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS—E. S. BRYANT, chief.

GRAZING.

A. F. POTTER, associate forester, in charge; WILL C. BARNES, assistant forester; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge; Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Albuquerque, N. Mex.

Range reserve experiments.—Jornado Reserve; L. C. Hurtt, grazing assistant, in charge; Clarence L. Forsling, grazing assistant, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest assistant, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, G. E. Clement.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director; Carlile P. Winslow, engineer in forest products.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, Howard N. Calderwood.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; Sidney D. Wells, H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Textor.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin, Milton H. Hostman.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew, I. L. Moore.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt, P. R. Hicks, M. C. Jensen.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris and R. K. Helphenstine, jr. Tight and slack cooperage investigations, J. T. Harris. Box industry investigations, J. C. Nellis. Preparation of publications on uses of woods, W. D. Brush. Collection of material for sets of samples of commercial woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr. Lumber and stumpage price records, Franklin H. Smith. Blighted chestnut durability experiments, J. C. Nellis.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Lenoir, N. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountan Area, D. W. Martin, H. S. Davis, forest examiners, Gorham, N. H. Potomac Area, W. R. Barbour, forest examiner, Woodstock, Va. Natural Bridge Area, H. M. Sears, forest examiner, Buena Vista, Va. Boone Area, E. M. Bruner, forest examiner, Lenoir, N. C. Mount Mitchell Area, R. J. Noyes, forest examiner, Marion, N. C. Pisgah Area, W. J. Damtoft and L. L. Bishop, forest examiners, Asheville, N. C.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C. White

Mountain Area, Arthur E. Hoxie and Frederick A. Gardner, examiners of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. Cherokee Area, W. N. Sloan, examiner of surveys, Etowah, Tenn. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C. Nantahala Area, J. W. Fox and James Denman, examiners of surveys, Andrews, N. C. Savannah Area, Harold G. Wood, examiner of surveys, Clayton, Ga. Boone Area, Frederick A. Gardner and A. M. Ockerblad, examiners of surveys, Lenoir, N. C. Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; John E. Taylor, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Lynchburg, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, telephone engineer.

FIRE DETECTION.—JOHN B. SOMERS.

FIRE CONTROL.—D. M. CONNER.

IMPROVEMENTS.—FAY G. CLARK.

MAINTENANCE.—GARDNER I. PORTER.

GEOGRAPHY.—F. E. BONNER. G. H. LAUTZ, entry surveys; C. F. FARMER, topographic surveys.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—S. V. FULLAWAY, JR., and R. C. EGGLESTON.

LOGGING ENGINEERING.—J. W. GIRARD, lumberman; F. R. MASON, forest examiner.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman; JOSEPH KITTREDGE, JR., forest examiner.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ————.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—H. S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho; Julius A. Larsen, forest examiner.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Pierce (WU–Am, via Orifino); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Chas. K. McHarg, jr., forest examiners.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); Ernest F. Jones, forest examiner.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Mallory N. Stickney, deputy forest supervisor; Abbott B. Silva, forest examiner.

Blackfeet.—R. P. McLaughlin, forest supervisor, Kalispell (WU–Am, GN); T. E. Miller, deputy forest supervisor.

Cabinet.—Carl M. Stevens, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—George E. Martin, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—Lewis C. Stockdale, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, A. B. Hastings, and W. C. Latane, forest examiners.

Flathead.—Joseph D. Warner, forest supervisor, Kalispell (WU–Am, GN); John H. Clack, deputy forest supervisor; A. O. Benson, forest examiner; R. A. Hamilton, forest assistant in charge of reconnaissance crew.

Gallatin.—R. E. Bodley, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. Seely, forest supervisor, Helena (WU–Am, N).

Jefferson.—Scott Leavitt, forest supervisor; Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor.

Kootenai.—Glen A. Smith, forest supervisor, Libby (WU–Am, GN); John C. Ketridge, forest examiner.

Lewis and Clark.—Justin K. Dwinelle, forest supervisor, Chouteau (WU–Am, GN).

Lolo.—Elers Koch, forest supervisor, Missoula (WU, P–Am, N); John E. Keach, forest examiner; William W. Bennett, deputy forest supervisor.

Madison.—Roscoe G. Willson, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–Am, N); Dwight L. Beatty, deputy forest supervisor.

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—Arthur C. Haines, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–Am via Bellefourche).

SOUTH DAKOTA.

Sioux.—Arthur C. Haines, forest supervisor, Camp Crook (WU via Bellefourche–Am via Bellefourche).

WASHINGTON.

Kaniksu.—J. F. Forsythe, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN via Priest River); H. F. Lindsay, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer.

A. E. PALEN, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—F. H. CARROLL.

GEOGRAPHY.—ROBT. E. PRATT.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester. THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—E. W. NELSON, director, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR T. UPSON, forest supervisor, Hot Sulphur Springs (WU–Ad); D. S. Jeffers, deputy forest supervisor.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–WF).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF); R. S. Wheeler, forest examiner.

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest superviser, Denver (WU, P–Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–WF).

San Juan.—A. F. C. HOFFMAN, acting forest supervisor, Pagosa Springs (WU–WF).

Sopris.—W. G. BAXTER, forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF).

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU–Ad). Bessey Nursery, Theodore Krueger, forest assistant, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiebe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

Harney.—R. P. IMES, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor.

WYOMING.

Bighorn.—ANDREW G. STOCKWELL, acting forest supervisor, Sheridan (WU–Ad); J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—GEO. A. DUTHIE, forest supervisor, Laramie, (WU, P–Am); F. B. Notestein, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); B. R. H. d'Allemand, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); Michael J. Sweeney, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

P. G. REDINGTON, district forester; LYLE A. WHITSIT, hydroelectrical engineer; ALDO LEOPOLD, forest examiner (detail), information and game protection.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; W. H. GILL, geography; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction; CHAS. H. KISSAM, national forest examiner, improvement.

O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester; C. W. MCKIBBIN, forest examiner; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING, forest examiner. Entry surveys: R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); R. F. Balthis, deputy forest supervisor; Gordon T. Backus, forest examiner.

Chiricahua-Coronado.—DON P. JOHNSTON, forest supervisor; Robert J. Selkirk, deputy forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); George W. Kimball, forest examiner.

NEW MEXICO.

Alamo-Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); James S. Scott, deputy forest supervisor.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); E. G. Miller, deputy forest supervisor; H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF). Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); O. F. Arthur, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Fanta Fe (WU–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, forest supervisor, executive assistant; JOHN C. BROWN, improvements.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler; N. B. ECKBO, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge; S. E. BOWER, forest examiner. Pocatello Nursery: Arthur P. Say, ranger, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Silver Lake, Utah (on Wasatch National Forest). Beaver Creek Nursery: Asa L. Brower, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—R. E. CONNER, property clerk; H. A. BEAUVERD, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—L. W. HASTINGS, forest supervisor, Montpelier (WU–Am); Herman Work, deputy forest supervisor. Grazing studies: C. E. Favre and W. V. Evans.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); E. C. Sanford, deputy forest supervisor.

Idaho.—H. C. WILLIAMS, forest supervisor, McCall (WU–P); Lawrence J. Phelan, deputy forest supervisor; H. B. Maris, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); John Ingram, forest examiner; F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).

Ruby.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Santa Rosa.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor. Grazing studies: L. J. Palmer.

Dixie.— ———, forest supervisor, St. George (WU–WF).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); J. C. Roak, forest examiner.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor. Grazing studies: Bryant S. Martineau.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); W. M. Mace, deputy forest supervisor. Grazing studies: J. A. Willey and R. J. Becraft.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor. Grazing studies: A. W. Stevens and T. B. Nichols.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); W. W. Smith, deputy forest supervisor; Wm. F. Tribe, James H. Hull, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; L. H. WHITEMAN, in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant; Douglas K. Noyes, forest examiner.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF).

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff–WF via Red Bluff); M. R. Tillotson, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Oscar M. Evans, forest examiner.

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Hot Springs (WU via Ducor–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); Belknap C. Goldsmith, forest examiner; C. H. Ensign, scaler. Pilgrim Creek Nursery, Fred W. Graham, forest ranger, in charge, McCloud.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, national forest inspector.

MAINTENANCE.—H. M. WHITE.

M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; E. J. FENBY and NORMAN G. JACOBSON, forest examiners.

B. J. FINCH, senior highway engineer (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

ENTRY SURVEYS.—W. M. H. WOODWARD, mineral examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am); R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; Geo. A. Bright, forest examiner; Robert Craig, national forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); F. A. Matz, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; A. F. Kerr, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF).

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; FRANCIS KIEFER, assistant district forester; S. L. WOLFE, forest examiner, in charge of products; GEORGE E. MARSHALL, lumberman; R. C. HALL, forest examiner, in charge of timber surveys.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU–WF); C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers, Fla. (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Forest Products Laboratory: H. N. Calderwood, assistant chemist in forest products; Clyde L. Moore, assistant engineer in forest products.

DISTRICT 1.—Donald H. Clark, grazing assistant; Harold Townsend, surveyor-draftsman; Rose A. McNamara, clerk (stenographer and typewriter); Margaret Norton, typist; James W. Parker, Absaroka; Arthur U. Stanley, Custer; Lester H. McLean, Gallatin; Harry C. Schick and Jean Ewen, Jefferson; Sylver J. White, Lewis and Clark; Arthur T. Smith, Madison; John C. DeCamp, Pend Oreille; Charles J. Hash, St. Joe, assistant forest rangers; Gustav H. Wiese, Lewis and Clark, forest clerk; Margaret T. Douglas, Deerlodge, clerk (stenographer and typewriter).

DISTRICT 2.—Henry C. Orpen, John Burgess, William H. Curwen, and William M. Jeffrey, surveyors-draftsmen; Rosalia F. Shields, clerk (stenographer and typewriter); Alfred C. Anderson, Michigan, forest clerk; Harry S. Dickerson, Holy Cross, forest ranger; Paul F. Barker and William B. Mullen, Arapaho; Walter Osborn, Warren T. Pilcher, and Albert Wiehe, Black Hills; Ernest W. Hedlun, Harney; Bly Dickson, Medicine Bow; Lewis R. Rist, Montezuma; Phillip V. Woodhead, Pike; Charles F. Capes, Routt; William M. Scanlan, Sopris; Robert G. Schreck, Superior; Fred Stell, White River, assistant forest rangers.

DISTRICT 3.—Frank E. Washburn, draftsman (copyist, topographic); Stella R. Gray, Alamo-Lincoln, clerk (stenographer and typewriter); Carl E. Toupain, Tonto; Carroll Z. Wight, Sitgreaves, clerks (typewriters); Kenneth C. Balcomb, district office; George B. Galer, Apache; Thomas B. Ruth, Chiricahua; Henry C. Deutsch and Frederick O. Knipe, Coconino; Walter A. Foor, Datil; Ralph W. Hussey, Gila; Ernest C. Damon, Manzano; George A. Churchwell, Alverous W. Fletcher, Fred Haworth, Raymond E. McMahon, Frank A. Williams, and George R. Yorke, Prescott; Bascom H. Brown, Leonard D. Blodgett, Walter C. Lowdermilk, Fabian F. McCarty, and John V. Nevitt, Santa Fe; James L. Hall, Sitgreaves; John W. Johnson, Tonto; Charles G. Baecht, Joseph M. Daly, and Raymond F. Grefe, Tusayan, assistant forest rangers.

DISTRICT 4.—Clarence E. Favre, grazing assistant; William V. Evans, Caribou; Lawrence J. Palmer, Sevier, forest rangers; William J. Rafferty, Boise; Charles C. Shaw, Challis; Raymond J. Becraft and Edward P. Cox, Manti; George E. Moore, Nevada; E. Morgan Pryse, Palisade;

Forest E. Robb, Payette; Lester L. Butler, John Gilman, Albert R. Griffith, Oscar W. Mink, and Earl Templeton, Sawtooth; David L. Enteman and Arthur G. Nord, Targhee; Franklin A. Hamilton and Oliver F. Vose, Weiser; Lowell E. Hicks, Wyoming, assistant forest rangers; John J. Dieu, Sevier; Walter L. Priest, Wyoming, forest clerks.

DISTRICT 5.—Peter C. Nichols, Sequoia; Lloyd P. Emerick, Shasta, clerks (stenographers and typewriters); John C. Cumberland, messenger boy.

DISTRICT 6.—Fred E. Pape and Lewis A. McArthur, collaborators; Roy A. Knaup, draftsman; Madeline C. Meyers and Dorothea M. Koerber, clerks; Victor H. W. Flack, messenger boy; H. Vivian Brown, Columbia; Roy Muncaster, Olympic; Charles J. Kraebel, Oregon; Gustaf W. Hult, Santiam; Robert H. Harper, Wallowa; Frank W. Mattson, Whitman, assistant forest rangers; Abbott C. Read, Deschutes, clerk; Robert Kelcynske, Whitman, clerk (stenographer and typewriter).

DISTRICT 7.—Knox W. Cody, Arkansas; Howard S. Sawyer, Carroll B. Shiffer, Raymond H. Fiske, John D. Lawrence, and Leroy M. Richardson, White Mountain; Julius G. Siler, Jr., Nantahala; Leroy O'Kelley, Peter C. Coates, Webb Hollingsworth, Lewis M. Carland, and Wesley Burress, Pisgah; John E. Potts, Savannah; George M. Bird, Joel O. Brigman, William Camile Chable, and Leland Fouts, Mount Mitchell; George W. Cole and Charles Snyder, Unaka; George S. Blevins and Joseph Hendley Johnson, White Top; Charles M. Johnson and Robert A. Johnson, Natural Bridge, assistant forest rangers.

PROMOTED IN RANK.

DISTRICT 1.—Roscoe Haines, St. Joe, forest ranger to forest supervisor; L. F. Vinal, Kootenai, scaler to deputy forest supervisor; E. A. Woods, Lewis and Clark; Howard Drake, Coeur d'Alene; David F. McGill, Sioux, assistant forest rangers to forest rangers.

DISTRICT 2.—Albin G. Hamel, San Isabel; Wm. G. Baxter, Sopris, forest examiners to forest supervisors; Henry C. Langston, Arapaho; Rufus J. Pilcher, Black Hills; Fred C. Parrett, Pike; Stephen E. Doering, Rio Grande; Chas. G. White, San Juan; Chas. L. Cecil, Superior, assistant forest rangers to forest rangers.

DISTRICT 3.—James A. Scott, Alamo-Lincoln; Elliott S. Barker, Carson, forest rangers to deputy forest supervisors; George W. Kimball, Tusayan, forest ranger to forest examiner; George W. Messer, Alamo; Edward P. Ancona, Carson; Earl W. Loveridge and Fred V. Plomteaux, Santa Fe; Thomas P. Reid, Tusayan, assistant forest rangers to forest rangers.

DISTRICT 4.—Clarence N. Woods, inspector of grazing to assistant district forester, office of lands; Ernest Winkler, forest supervisor to inspector of grazing, office of grazing; Lucas W. Hastings, Caribou; Carl A. Mattson, Fishlake; Hubert C. Williams, Idaho, deputy forest

supervisors to forest supervisors; Herman Work, Caribou, forest examiner to deputy forest supervisor; William W. Smith, Wasatch, forest ranger to deputy forest supervisor; Leslie E. Dodge, Challis; James Jensen, Fillmore; Maurice B. Cross and Paul Schulze, Humboldt; Francis M. Cox, jr., Manti; Ray Pickett, Palisade; William H. Horton and Horace B. Howland, Sawtooth; Clinton M. Mangun, Weiser, assistant forest rangers to forest rangers.

DISTRICT 5.—John D. Coffman, deputy forest supervisor to forest supervisor; Edward I. Kotok, forest examiner to forest supervisor.

DISTRICT 6.—Alexander G. Jackson, forest examiner to deputy forest supervisor; Everett H. MacDaniels, Chelan, deputy forest supervisor to forest supervisor; E. E. Harpham, Olympic, from assistant forest ranger to scaler; Jesse L. Peterson, Wallowa, assistant forest ranger to grazing examiner.

DISTRICT 7.—Seth E. Hopewell, Arkansas, forest clerk to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—Claget Sanders, St. Joe, scaler to forest ranger; Solomon E. Perlman, Cabinet, forest assistant to assistant forest ranger; F. G. Clark, deputy forest supervisor to forest examiner.

DISTRICT 2.—John McLaren, forest supervisor to national forest examiner; Henry C. Langston, Arapaho, surveyor to assistant forest ranger.

DISTRICT 3.—Joseph C. Kircher, Santa Fe, forest examiner to forest supervisor; Charles H. Kissam, district office, deputy forest supervisor to forest examiner.

DISTRICT 5.—Wm. S. Brown, Modoc, clerk to deputy forest supervisor.

RESIGNED.

ACQUISITION.—James Gore, jr., Herbert L. Cooper, Rodney D. Brown, transitmen.

RESEARCH.—Forest Products Laboratory: Norman DeWitt Betts, engineer in forest products; Oscar W. Torgeson, laboratory aid and engineer.

DISTRICT 1.—James Logan, Coeur d'Alene, forest assistant; Ernest Wethern, Gallatin; Adolph J. Bucher, Helena, forest rangers; George W. Cady and George A. Edwards, Lolo, scalers; J. R. Winnington, Coeur d'Alene; Benjamin F. Thompson, Deerlodge; Christian O. Hansen, Helena; George B. Rowe, Madison; Eugene Langdon, Nezperce; Guy A. Terry, St. Joe, assistant forest rangers; Beatrice F. Welch, Deerlodge; Dorothy Nebergall, Flathead; Mary S. Buzzell, Lewis and Clark; Lottie I. Brower, clerks (stenographers and typewriters); Charles A. Fisher, national forest examiner; William H. Alkire, messenger boy.

DISTRICT 2.—Seward D. Smith, forest examiner; Winifred C. Bunger and Rosamond E. Fry, district office; Nellie S. Serier, Michigan, clerks (stenographers and typewriters); John E. Stephens, Arapaho; Fred J. Seals, Black Hills; William A. Poe, Harney; Hiram K. Wright, Minnesota, forest rangers; Bertram A. Goodman and Walter M. Thomas, Arapaho; Robt. L. Peltz, Harney; Oliver E. Taylor, Hayden; Harry Friend, Holy Cross; Allen Snyder, San Juan; Gilbert H. Hutchins, Sopris, assistant forest rangers.

DISTRICT 3.—Otho M. Sutherland, draftsman (mechanical); Frank C. Severns, blueprinter; Edward L. Blust, messenger; Charles M. Kachlmeier, Tonto, clerk (stenographer and typewriter); James H. Kinney, Lincoln, forest supervisor; Thomas E. McCullough, Coconino, forest examiner; Ralph E. King, Prescott, forest ranger; Fred W. Croxen, Coconino; George H. Birdno, Crook; Clark A. Gingery, Prescott; Guilford B. Chapin, Santa Fe, assistant forest rangers; Walter G. Turley, surveyor.

DISTRICT 4.—Timothy C. Hoyt, assistant district forester; office of lands; Irvin N. Hoffman, copyist, topographic draftsman, geography; Herbert Graff, Idaho; James M. Ryan, Ruby; Frank Bruins, Wasatch, forest supervisors; Adolph G. Hauge, Wasatch, forest examiner; John A. Ferguson, Caribou; John A. Wood, Challis; Samuel A. Buchanan, Minidoka; William L. Farmer and Standley D. Reed, Nevada; William Swan, Salmon; Geo. W. Yeaman, Wyoming; William S. Paddock, Payette; Hyrum A. Porter, Powell; George Donart, Weiser, assistant forest rangers; Ethel Jarvis, Dixie, forest clerk.

DISTRICT 5.—William C. Hoge, jr., forest examiner; Carl O. Brenner, California; Mark C. Cathey, Sierra; Edward Elmgren and David W. Haas, Trinity, assistant forest rangers; Rollin A. Fairchild, Sequoia; Martha M. Entwissle, Shasta, clerks (stenographers and typewriters).

DISTRICT 6.—Paul L. Wise, messenger boy; George W. Milham, Chelan, forest supervisor; Fritz Sethe, Columbia; James J. Simerville, Crater; Lee E. Emery, Oregon; Stephen J. Spoerl, Siskiyou; Newton V. Downs and John F. Winniford, Wallowa, assistant forest rangers; Aaron H. Walton, Oregon, forest ranger.

With deep regret announcement is made of the death of Henry J. Ireland, forest supervisor, Whitman, May 31, 1916.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 46.

State Cooperation—

A number of the States have State foresters, State fire wardens, or similar officials who are conducting forestry work in the various lines, such as the administration of State forests, fire protection, investigations, the collection of statistics, and the like. It is to the mutual advantage of the States and the Forest Service that each be informed of the forest activities of the other. The purpose of this order is to promote an interchange of information between the States and the Service regarding such activities and thus more closely to cement the relations between the two agencies. To effect this purpose the Office of State Cooperation will act as a clearing house for all information relating to the States. Therefore, the following instructions, which will apply only to the States in District 7 and to Michigan, Wisconsin, and Minnesota, are issued:

(1) Branches and offices in charge of investigative projects, including those concerning silviculture, products, fire protection, and statistics, but excluding those concerning National Forest work, will inform State foresters or other forestry officials in the region where any considerable work is to be done of the character of each project and the general plan for carrying it out, as soon as practicable after the project has been formulated. The criticism and suggestions of the State official should be invited. This should be done not only as a matter of courtesy to him, but also to secure the benefits of his knowledge and cooperation as far as possible.

(2) Branches and offices will supply the Office of State Cooperation with the same information, preferably by carbon copy of the letter to the State officer.

(3) All news items, bulletins, circulars, or other material intended for publication which mention or directly concern State activities will be referred by the Editor to the Office of State Cooperation for suggestions.

(4) The Office of State Cooperation will send to the State foresters or similar officials a circular letter from time to time giving informa-

tion on technical or administrative activities of the Service which may interest the States. It will be understood that information contained in such letters will not be published by the States, so that tentative results can be given.

All branches and offices will send to the Office of State Cooperation monthly reports and other material of special interest suitable to be included in such letters, with suggestions, preferably in the form of memoranda, as to special features therein which should be mentioned. Such material will there be abstracted and incorporated into the letters, together with similar material collected from the States.

Information on district activities obtained from monthly and other reports will be used from time to time; and district foresters are asked to aid the Office of State Cooperation by suggesting or forwarding other material whose use in the periodic letters would be desirable.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Harry I. Babbitt: Timber trespass, civil, Helena National Forest. Case closed upon receipt of $115.80, value of timber cut.

United States *v.* Fred C. Burks: Timber trespass, civil, Missoula National Forest. Case settled upon payment of $40, value of timber cut.

United States *v.* Fischer & Hample: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $7.15, value of forage consumed.

United States *v.* Great Northern Railway Co., Winston Brothers Co., and C. W. Werdenhoff: Fire trespass, Lewis and Clark National Forest. Government's motion to strike from defendants' amended answer overruled by Judge Bourquin May 5, 1916. Government's reply brief to amended answer filed May 26, 1916. June 20, 1916, defendants filed demurrer and motion to strike from Government's reply to amended answer.

United States *v.* Philip Link: Occupancy trespass, Coeur d'Alene National Forest. Letter prepared for signature of district forester advising Link that he would be required to vacate the premises by July 1, 1916. Complaint prepared for institution of injunction proceedings.

Law Cases in District 2—

United States *v.* C. M. Boyd: Fire trespass, Holy Cross National Forest. Case closed upon payment of $39.48.

United States *v.* John H. Burnside: Grazing trespass, Kansas National Forest. Settled by payment of $13.25.

United States *v.* Denver & Salt Lake Railroad Co.: Fire trespass, Pike National Forest. Settled by payment of $300 judgment and $20 costs.

United States *v.* R. T. Walker et al.: Timber trespass. Wilson and Force, sureties, of Minneapolis, Minn., have paid in full the judgment in this case amounting to $2,188.80, covering the value of timber cut and removed from certain lands in the Harney National Forest, and costs of the case.

United States *v.* H. D. Robinson: Occupancy trespass, Black Hills National Forest. Judge Elliott of the district of South Dakota, on June 22, 1916, issued an injunction restraining H. D. Robinson from interfering with the Forest Service in the sale of certain timber on lands claimed by Robinson under settlement right.

Law Cases in District 3—

United States *v.* Mrs. H. B. Birmingham: Grazing trespass, Datil National Forest. Case closed on payment of $46.25, the value of the forage.

United States *v.* Mrs. Edith Fuentes: Grazing trespass, Datil National Forest. Case closed on payment of $43.75, the value of the forage.

United States *v.* Emma J. Maybery: Grazing trespass, Datil National Forest. Case closed on payment of $50, the value of the forage.

United States *v.* W. G. Maybery: Grazing trespass, Datil National Forest. Case closed on payment of $41.25, the value of the forage.

United States *v.* Eraso & Guebenson: Grazing trespass, Prescott National Forest. Case closed on payment of $13.50, the value of the forage.

United States *v.* Golsarry & Sancet: Grazing trespass, Prescott National Forest. Case closed on payment of $102.50, the value of the forage.

United States *v.* Medler Brothers: Grazing trespass, Tonto National Forest. Case closed on payment of $37.20, the value of the forage.

United States *v.* Felipe Alderete: Grazing trespass, Manzano National Forest. Case closed on payment of $8.50, the value of the forage.

United States *v.* Melcor Alderete: Grazing trespass, Manzano National Forest. Case closed on payment of $8.53, the value of the forage.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Tusayan National Forest (Willow & Alder Mill sites). Complaint asking injunction against further occupancy filed June 6, 1916.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Tusayan National Forest (Cape Horn Lode). Temporary restraining order prohibiting the erection of further buildings or making of further excavations issued June 6, 1916.

United States *v.* Constantino Santander: Grazing trespass, Prescott National Forest. May 12, 1916, defendant arrested and held for grand jury under $250 bond.

Law Cases in District 4—

United States *v.* Myrl Byrd: Property trespass, Cache National Forest. Defendant pleaded guilty in United States district court at Pocatello at March term and was sentenced to serve 30 days in jail.

United States *v.* M. Raycraft: Timber trespass, Dixie National Forest. Demand made for $20 actual damages. Amount paid. Case closed.

United States *v.* J. B. Ferguson: Grazing trespass, Challis National Forest. Demand made for $5.19 actual damages. Amount paid. Case closed.

United States *v.* Bruneau Sheep Co.: Grazing trespass, Humboldt National Forest. Demand made for $37.76 actual damages. Amount paid. Case closed.

Law Cases in District 6—

United States *v.* James Ainge: Fire trespass, Wenatchee National Forest. On April 12 James Ainge pleaded guilty to setting fire on the Wenatchee National Forest, before a justice of the peace at Leavenworth, Wash., and was fined $25.

United States *v.* Kittitas Railway & Power Co.: Timber trespass, Wenatchee National Forest. On May 3 judgment was entered in the United States district court for eastern district of Washington in the sum of $692.25 and costs.

United States *v.* J. D. (Dave) Edler: Grazing trespass, Fremont National Forest. Trespasser paid actual damages of $60 and punitive damages amounting to $100.

United States *v.* Barney Parks: Grazing trespass, criminal, Malheur National Forest. Trespasser was arrested, pleaded guilty on May 19, was fined $50, which has been paid.

United States *v.* Elmer Costelloe: Fire trespass, criminal, Siskiyou National Forest. Trespasser was arrested, pleaded guilty before Judge Bean, United States district court for Oregon, on June 17, and was sentenced to 30 days in jail.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 343.—Ground Wood Pulp.

Department Bulletin 364.—Forest Conservation for States in the Southern Pine Region.

Farmers' Bulletin 715.—Measuring and Marketing Woodlot Products.

Recreation map for Black Hills Region.

Recreation map for Columbia Gorge Park.

Recreation map for White Mountain Region.

Recreation map for Oregon National Forest.

Recreation map for Sequoia National Forest.

Recreation map for Shasta National Forest.

Recreation map for Stanislaus National Forest.

Recreation map for Trinity National Forest.

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1916

No. 7. Issued October 15, 1916.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

PROPERTY OF THE DIVISION OF AGRICULTURE UNIVERSITY OF CALIFORNIA

October Field Program, 1916.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Goat range study.—William R. Chapline, grazing assistant, Albuquerque, N. Mex.

Range reserve experiments.—Jornado Reserve; L. C. Hurtt, grazing assistant, in charge; Clarence L. Forsling, grazing assistant, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest assistant, in charge, Tucson, Ariz.

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PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris and R. K. Helphenstine, jr. Tight and slack cooperage investigations, J. T. Harris. Box industry investigations, J. C. Nellis. Preparation of publications on uses of woods, W. D. Brush. Collection of material for sets of samples of commercial woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr. Lumber and stumpage price records, Franklin H. Smith. Blighted chestnut durability experiments, J. C. Nellis. Collaborator, A. B. Strough, New York.

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Black Hills.—See South Dakota.

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MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classi-

fication: REX KING, forest examiner. Entry surveys; R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); R. F. Balthis, deputy forest supervisor; Gordon T. Backus, forest examiner.

Chiricahua-Coronado.—DON P. JOHNSTON, forest supervisor, Tucson (WU–WF); Robert J. Selkirk, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); George W. Kimball, forest examiner.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (WU, P–WF).

NEW MEXICO.

Alamo-Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); James S. Scott, deputy forest supervisor.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); E. G. Miller, deputy forest supervisor; H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF). Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); O. F. Arthur, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, forest supervisor, executive assistant; JOHN C. BROWN, improvements.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FELIX T. MOORE.

GEOGRAPHY.—F. I. SHAFER.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler; N. B. ECKBO, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge. Pocatello Nursery: S. E. Bower, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Silver Lake, Utah (on Wasatch National Forest). Beaver Creek Nursery: Asa L. Brower, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

FOREST INVESTIGATIONS.—C. F. KORSTIAN.

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assitant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification

SUPPLY DEPOT.—R. E. CONNER, property clerk; H. A. BEAUVERD, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—L. W. HASTINGS, forest supervisor, Montpelier (WU–Am); Herman Work, deputy forest supervisor. Grazing studies: W. V. Evans.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); E. C. Sanford, deputy forest supervisor.

Idaho.—H. C. WILLIAMS, forest supervisor, McCall (WU–P); Lawrence J. Phelan, deputy forest supervisor; H. B. Maris, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); John Ingram, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU–WF). Grazing studies: C. E. Favre.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU–WF).

Ruby.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Santa Rosa.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor. Grazing studies: L. J. Palmer.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robiks, deputy forest supervisor; J. C. Roak, forest examiner.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor. Grazing studies: Bryant S. Martineau.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); Grazing studies: J. A. Willey.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor. Grazing studies: A. W. Stevens, T. B. Nichols, and H. W. Johnston.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); W. W. Smith, deputy forest supervisor; Wm. F. Tribe, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; L. H. WHITEMAN, in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner; insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant.

GRAZING.—C. E. RATCHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Knower Mills, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); M. R. Tillotson, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Oscar M. Evans, forest examiner.

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest exaimner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); Belknap C. Goldsmith, forest examiner; C. H. Ensign, scaler. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, national forest inspector.

MAINTENANCE.—H. M. WHITE.

M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; NORMAN G. JACOBSON, forest examiner.

B. J. FINCH, senior highway engineer (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

ENTRY SURVEYS.—W. M. H. WOODWARD, mineral examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, O. F. Ericson, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor; W. J. Sproat, forest examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; C. B. Neal, forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF; D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, Geo. A. Bright, forest examiners; Robt. Craig, jr., national forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Sumpter (WU via Baker–Am, WF, via Baker); F. A. Matz, deputy forest supervisor; T. J. Starker, A. A. Griffin, forest examiners.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, Geo. W. Hutton, F. S. Fuller, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; A. F. Kerr, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF); E. J. Fenby, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN); W. K. Ramsdell, forest examiner.

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; FRANCIS KIEFER, assistant district forester; W. F. HILL, deputy forest supervisor; S. L. WOLFE, forest examiner, in charge of products; E. L. LINDSAY, forest examiner, exhibits.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU–WF); C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola, Fla. (WU, P); L. L. Bishop, forest examiner, land classification.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administratiton.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P–Ad).

Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Laboratory: Lee Thompson, laboratory aid and engineer.

DISTRICT 1.—Atticus R. Sanders and David Lake, Jefferson, John De Haven, Nezperce, Allen W. Armstrong, Lolo, forest rangers; Irene A. Garland, Flathead, Charlotte Harris, Gallatin, Mary E. Isaminger, Kaniksu, clerks (stenographers and typewriters); Guy W. Furnish, messenger boy.

DSITRICT 2.—Harry R. Kylie, telephone engineer; Fred C. Hill, surveyor-draftsman; Robert H. Easterbrooks, Arapaho, forest assistant; Francis M. Harless, Battlement, Joseph C. McLeod, Black Hills, forest clerks; Charles L. Webber, Black Hills, Cassius M. Thomas, Cochetopa, Evan J. Williams, jr., Medicine Bow, forest rangers.

DISTRICT 3.—George Mutz, Alamo, forest ranger; Mary C. Stombs, Carson, Grace W. Williamson, Santa Fe, Rita Mathison, clerks (stenographers and typewriters).

DISTRICT 4.—John Bohnlofink, draftsman (topographic); Edna B. Malan, map colorist; Horace W. Shurtleff, messenger boy; Benjamin J. Hoffner, Nevada, forest clerk; Zilla N. Shepard, Payette, clerk, (stenographer and typewriter); Vern A. Bird, Ashley, Joseph L. Sheppard, and Ira C. Lambert, Wasatch, forest rangers.

DISTRICT 5.—Herbert L. Cox, Tahoe, Ruth Chalfen, clerks (stenographers and typewriters); Constantin L. Rixson, Monterey, forest clerk; Duncan Dunning, Shasta, forest assistant.

DISTRICT 6.—Clay M. Allen, telephone engineer; Ina F. Strock, telephone operator; William A. La Sater, Fremont, Alan K. Moody, Olympic, Albert K. Weisendanger and Arthur W. Parker, Oregon, Alfred R. Tyler, Wenatchee, forest rangers; E. E. Harpham, Olympic, scaler.

PROMOTED IN RANK.

DISTRICT 1.—John B. Somers, Beaverhead, forest examiner to forest supervisor; D. L. Beatty, Lewis and Clark, deputy forest supervisor to forest supervisor; A. Price Townsend, Lewis and Clark, forest ranger to deputy forest supervisor; G. A. Schattenburg, forest clerk to deputy forest supervisor.

DISTRICT 2.—Dwight S. Jeffers, Arapaho, deputy forest supervisor to forest supervisor; Wm. O. Sauder, Cochetopa, Harold L. Borden,

Gunnison, Howard H. Richmond, Minnesota, Theodore Krueger, Nebraska, Richard T. Guthrie, Pike, forest assistants to forest examiners; Jay Higgins, Nebraska, forest examiner to forest supervisor; Frank A. Powell, Holy Cross, Hans N. Kleiber, Bighorn, assistant forester rangers to forest rangers; Ernest T. Wolf, Washakie, forest ranger to forest examiner.

DISTRICT 3.—T. Earl Wylder, Tusayan, forest ranger to deputy forest supervisor; Leo E. Anderson, Carson, Kenner C. Kartchner, Sitgreaves, assistant forester rangers to forest rangers.

DISTRICT 4.—William M. Mace, Manti, deputy forest supervisor to forest supervisor, Dixie; Bert L. Robins, Fillmore, forest ranger to deputy forest supervisor; William F. Tribe, Wasatch, forest ranger to scaler; John E. Salter, messenger boy to blue printer.

DISTRICT 5.—William M. Clingan, Sequoia, Frank V. Van Horn, Modoc, assistant forest rangers to forest rangers.

CHANGE IN DESIGNATION.

In accordance with the terms of the appropriation act effective August 11, 1916, the statutory designation of assistant forest ranger was changed to that of forest ranger.

DISTRICT 1.—D. M. Conner, deputy forest supervisor to national forest examiner; J. K. Dwinelle, Kootenai, forest supervisor to forest ranger.

DISTRICT 2.—Fred R. Johnson, forest supervisor to forest examiner; Arthur F. C. Hoffman, San Juan, forest examiner to deputy forest supervisor.

DISTRICT 6.—Robert H. Weitknecht, assistant forest ranger to forest assistant; Thomas M. Hunt, Chugach, deputy forest supervisor to supervisor.

RESIGNED.

ACQUISITION.—F. A. Spencer, transitman.

RESEARCH.—Laboratory: Robert C. Palmer, chemist in forest products; Homer Cloukey, assistant chemist in forest products.

DISTRICT 1.—C. K. Wyman, Beaverhead, forest supervisor; Talmage E. Miller, Blackfeet, deputy forest supervisor; J. A. Cope, Flathead, forest assistant; Walter A. Donaldson and Samuel R. Hays, Jefferson, Frank W. Syler, Kootenai, Horace B. Yerkes, Nezperce, forest rangers, George F. Mills, Beartooth, Ralph W. Smith, Beaverhead, Francis C. Porter, Flathead, Gustav H. Wiese, Lewis and Clark, forest clerks; John W. Pierson, messenger boy.

DISTRICT 2.—Wm. G. Baxter, Sopris, Charles L. Smith, Bighorn, forest supervisors; Willis C. Danielson, surveyor-draftsman; Berney F. Kitt, civil engineer and draftsman; Lawrence Nelson, transitman; Solon D. Ackley, Holy Cross, Vernon C. Sheffield, Black Hills, Albert

H. Hoffman, San Isabel, forest rangers; Harold A. Speidel, Colorado, Albro K. Cowles, Harney, assistant forest rangers; Nora D. Booth, Black Hills, Evalyn Eddy and Bertha S. Kaltenback, clerks (stenographers and typewriters); Gordon Fincannon, Bighorn, clerk (typewriter).

DISTRICT 3.—Clifford W. McKibbin, forest examiner; Athol A. Wynne, lumberman; Bertha L. Marckhoff and Anna H. Myers, clerks (stenographers and typewriters); Charley C. Hill, Carson, Robert W. Reid, Gila, George A. Churchwell, Prescott, Richard H. Kennerdell, Lewis C. Way, and Robert H. Zeiger, Tusayan, forest rangers; Harry J. Yardley, Carson, forest clerk; Grace Johnston, Santa Fe, Carroll Z. Wight, Sitgreaves, Charles E. Toupain, Tonto, clerks (typewriters); John K. Kidd, Tusayan, scaler.

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DISTRICT 5.—Gertrude Emmerich, Tahoe, Elizabeth Morrisroe, clerks (stenographers and typewriters); Henry H. Chapman, Lassen, clerk; Harley E. Dillinger, Eldorado, forest clerk; Nickles C. Matzen, Cleveland, Fred W. Graham, Shasta, forest rangers; Obert O. Bundy, California, Will L. Baughman, Sierra, assistant forest rangers; Douglas K. Noyes, forest examiner; Abraham Louis Ginsburg, Plumas, clerk (stenographer and typewriter).

DISTRICT 6.—Clarence P. Willis, forest examiner; Henry Soll, Oregon, forest ranger; Victor H. W. Flach, messenger boy; James J. Randall, Minam, clerk (stenographer and typewriter).

With deep regret announcement is made of the death of Mrs. Elsie C. Lipman, clerk, San Francisco, Cal., September 9, 1916.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Mike and Frank Ault: Grazing trespass, civil, Absaroka National Forest. Case closed upon receipt of $60, value of forage consumed.

United States *v.* Great Northern Railway Co., Winston Bros. Co., and C. W. Werdenhoff: Fire trespass, civil, Lewis and Clark National Forest. Case tried in Federal court, Great Falls, Mont., September 15 to 26, inclusive. Verdict by jury in favor of United States, sum of $50,000 and costs; costs not yet ascertained.

Law Cases in District 2—

United States *v.* Millwood Lumber Co.: Timber trespass, Montezuma National Forest. Case closed upon payment of $173.39.

United States *v.* William Hemmerle: Grazing trespass, White River National Forest. Settled by payment of $23.78.

United States *v.* Roerig, Dunwoody, and Kirtley: Fire trespass, Pike National Forest. Defendants, after preliminary hearing before United States commissioner, were each held under $200 bond to appear at November term of court, Denver, Colo.

State of Colorado *v.* Joseph Luro and Tony Favalero: Property trespass, Pike National Forest. Defendants were charged, under the laws of the State of Colorado, with malicious mischief, in that they willfully defaced the walls of a ranger station house and barn by firing into same. They were also charged with having hunted without first securing a license under the laws of the State. They were taken before a local justice of the peace and fined the sum of $70 and costs, a total of $97, which was paid.

Law Cases in District 3—

United States *v.* Maxwell & Lahann: Grazing trespass, Manzano National Forest. Case closed on payment of $98.67, the value of the forage.

United States *v.* Bronson McMahon: Grazing trespass, Apache National Forest. Case closed on payment of $125, the value of the forage.

United States *v.* Colin Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $2.70, the value of the forage.

United States *v.* Joe W. Jackson: Grazing trespass, Alamo National Forest. Case closed on payment of $12.75, the value of the forage.

United States *v.* W. R. Harris: Grazing trespass, Lincoln National Forest. Case closed on payment of $150, the value of the forage.

United States *v.* R. E. and G. H. Daggs: Grazing trespass, Prescott National Forest. Case closed on payment of $60, the value of the forage.

United States *v.* N. J. and B. A. Cameron: Occupancy trespass, criminal, Tusayan National Forest. Informations filed charging these defendants with engaging in the livery business on an unpatented mining claim without permit. Defendants arrested and released under $500 bond. Defendants' demurrers to informations argued and matter taken under advisement by judge.

United States *v.* Medler Bros.: Grazing trespass, Tonto National Forest. Temporary injunction granted directing defendants to gather all trespassing cattle and remove them from the forest before November 15, 1916.

United States *v.* Constantina Santander: Grazing trespass, Prescott National Forest. Defendant entered plea of guilty and fined $50.

Law Cases in District 4—

United States *v.* Pete Ami: Grazing trespass, Sawtooth National Forest. Settled by payment of $25 actual damages.

United States *v.* J. L. Blackburn: Grazing trespass, Humboldt National Forest. Settled by payment of $3.60 actual damages.

United States *v.* J. W. Christensen: Grazing trespass, Manti National Forest. Settled by payment of $4.25 actual damages.

United States *v.* Roy Colby: Grazing trespass, Fishlake National Forest. Settled by payment of $12.12 actual damages.

United States *v.* T. C. Catlin: Grazing trespass, Boise National Forest. Settled by payment of $100 actual damages.

United States *v.* Hylton & Clayton Bros.: Grazing trespass, Humboldt National Forest. Settled by payment of $9.59 actual damages.

United States *v.* J. Heaton & Sons: Fire trespass, Sevier National Forest. Settled on payment of $20.66, value of timber destroyed.

United States *v.* Edward B. Franklin: Occupancy trespass. Injunction granted August 11 in the United States District Court for Arizona, prohibiting interference with watering of sheep in Wolf Hole Lake pending decision of Land Office on claim of Franklin.

Law Cases in District 5—

United States *v.* F. W. Simpson: Grazing trespass, Mono National Forest. Paid $46 in full settlement of trespass.

United States *v.* C. E. Wedertz: Grazing trespass, Mono National Forest. Paid $62 in full settlement of trespass.

United States *v.* C. D. Danahar Pine Co.: Timber trespass, Eldorado National Forest. Received $304.40 in full settlement.

United States *v.* J. C. Baxter: Fire trespass, Inyo National Forest. Damages in the sum of $59.40 received in full settlement.

United States *v.* J. H. Johnson: Grazing trespass, Modoc National Forest. Received $20.54 in full settlement.

United States *v.* G. K. King: Grazing trespass, Shasta National Forest. Received $31.66 in full settlement.

United States *v.* Sloat Lumber Co.: Timber trespass, Plumas National Forest. Payment in full in the sum of $21.44 received.

United States *v.* Johnson Bros.: Grazing trespass, Eldorado National Forest. Settlement in full in the sum of $14.28 received.

United States *v.* J. J. Elgorriaga: Grazing trespass, Plumas National Forest. Judgment for $52.33 and $42.40 costs. Settlement made and case closed.

United States *v.* J. H. Porter and the Altoona Quicksilver Co.: Timber trespass, Shasta National Forest. Verdict of jury for Government for $11,400 and costs.

United States *v.* Nels Swanson and Ole Swanson: Condemnation suit for road right of way, Trinity National Forest. Condemnation decreed. Awards of $400 and $150, respectively, in favor of the defendants.

Law Cases in District 6—

United States *v.* Noble Holcomb: Grazing trespass, Minam National Forest. On August 16, 1916, Noble Holcomb paid damages in the sum of $3.50, in full settlement of the claims of the United States.

United States *v.* G. W. Densley: Grazing trespass, Minam National Forest. On August 21, 1916, G. W. Densley paid damages in the sum of $9.45, in full settlement of the claims of the United States.

United States *v.* John Brown: Occupancy trespass, Washington National Forest. On September 23, Judge Neterer, of the United States District Court for the Western District of Washington, issued an injunction against the defendant enjoining him from going upon or improving under claim of settlement any portions of sections 7 or 8, township 39 north, of range 7 east, W. M., except in compliance with the rules and regulations of this department. Brown commenced the occupancy of said land without a permit and refused to discontinue his trespass when an application subsequently filed under the forest homestead act of June 11, 1906, was rejected.

United States *v.* David B. McAuliffe: Grazing trespass, Fremont National Forest. On September 23, 1916, David B. McAuliff paid the United States attorney for Oregon $146 in full settlement of the claim of the United States as follows: Forage value, $96; punitive damages, $50.

SERVICE PUBLICATIONS ISSUED.

Farmers' Bulletin 744.—The Preservative Treatment of Farm Timbers.

Unnumbered publication.—Instructions for the Scaling and Measurement of National Forest Timber (revision).

Yearbook Extract 662.—Pointers on Marketing Woodlot Products.

Yearbook Extract 670.—Osage Orange Waste as a Substitute for Fustic Dyewood.

Yearbook Extract 678.—Improvement and Management of Native Pastures in the West.

Recreation map of Eldorado National Forest.
Recreation map of Lassen National Forest.
Recreation map of Malheur National Forest.
Recreation map of Plumas National Forest.
Recreation map of Sierra National Forest.
Recreation map of Tahoe National Forest.

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[October, 1916.]

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6; July (28).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1916

No. 8. Issued January 15, 1917.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1917.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; JOHN L. COBBS, Jr., in charge of information.

FINDLEY BURNS, in charge of technical review.

Educational cooperation, DON CARLOS ELLIS.

Proofs and forms, CLAUDE M. BALLARD.

GEORGE B. SUDWORTH, dendrologist.

EUGENE S. BRUCE, expert lumberman.

ARTHUR C. RINGLAND, forest inspector.

ACCOUNTS.

M. E. FAGAN, chief.

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OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, inspector of records.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SUPPLY DEPOT, Ogden, Utah.—A. H. COUSINS, property assistant; H. A. BEAUVERD, clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor; W. E. THOMPSON, clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. van Hook, State forester, Helena, Mont.; ———, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge; Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Washington, D. C.

Range reserve experiments.—Jornado Reserve: L. C. Hurtt, grazing assistant, in charge; Clarence L. Forsling, grazing assistant, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest assistant, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, W. R. Mattoon (in cooperation with the States Relation Service), G. E. Clement, W. N. Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton,

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director; Carlile P. Winslow, engineer in forest products.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, L. F. Hawley, A. W. Schorger, Howard N. Calderwood.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Textor, Chas. R. Cressey.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin, Milton H. Hostman.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew, I. L. Moore.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Matthew E. Dunlap, Geo. M. Hunt, P. R. Hicks, M. C. Jensen.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming, Paul J. Siggers.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris and R. K. Helphenstine, jr. Tight and slack cooperage investigations, J. T. Harris. Box industry investigations, J. C. Nellis. Preparation of publications on uses of woods, W. D. Brush. Collection of material for sets of samples of commercial woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr. Lumber and stumpage price records, Franklin H. Smith. Blighted chestnut durability experiments, J. C. Nellis. Collaborator, A. B. Strough, New York.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—LYLE A. WHITSIT, assistant engineer, in charge.

FOREST MAPS AND SURVEYS.—FRANK E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Haleyville, Ala.; George E. Marshall, Clayton, Ga.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, H. S. Davis, S. H. Thompson, forest examiners, Gorham, N. H. Natural Bridge Area, H. M. Sears, forest examiner, Buena Vista, Va. White Top Area, L. H. Steffens, W. V. Damtoft, forest examiners, Abingdon, Va. Boone Area, E. M. Bruner, forest examiner, Lenoir, N. C. Mount Mitchell Area, R. C. Hall, R. J. Noyes, C. E. Beaumont, forest examiners, Marion, N. C. Alabama Area, W. R. Barbour, forest examiner, Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Robert G. Merritt, forest examiner, Washington, D. C. White Mountain Area, Arthur E. Hoxie, J. W. Fox, Frederick A. Gardner, examiners of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. Nantahala Area, W. N. Sloan, examiner of surveys, Andrews, N. C. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion, N. C. Nantahala Area, James Denman, examiner of surveys, Andrews, N. C. Savannah Area, Harold G. Wood, examiner of surveys, Clayton, Ga. Boone Area, A. W. Ockerblad, examiner of surveys, Lenoir, N. C. Natural Bridge Area, Beverley M. Higginbotham, examiner of surveys, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; John E. Taylor, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Lynchburg, Va.; W. L. Newman, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

ACCOUNTS.—JOHN A URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, telephone engineer.

FIRE DETECTION.— ———.

FIRE CONTROL.—D. M. CONNER.

IMPROVEMENTS.—FAY G. CLARK.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—S. V. FULLAWAY, JR., and R. C. EGGLESTON.

LOGGING ENGINEERING.—J. W. GIRARD, lumberman; F. R. MASON, forest examiner.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman; JOSEPH KITTREDGE, JR., forest examiner.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—H. S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—E. W. KRAMER, district engineer.

FOREST MAPS AND SURVEYS.—G. H. LAUTZ.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho; Julius A. Larsen, forest examiner.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell and Chas. K. McHarg, jr., forest examiners.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU–Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); Ernest F. Jones, forest examiner.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF); A. O. Benson, forest examiner.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); W. J. Derrick, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU–Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Mallory N. Stickney, deputy forest supervisor; Abbott B. Silva, forest examiner.

Blackfeet.—R. P. McLaughlin, forest supervisor, Kalispell (WU–Am, GN); E. A. Anderson deputy forest supervisor.

Cabinet.—Carl M. Stevens, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—George E. Martin, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—Lewis C. Stockdale, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, A. B. Hastings, and W. C. Latane, forest examiners.

Flathead.—Joseph D. Warner, forest supervisor, Kalispell (WU–Am, GN); John H. Clack and S. St. J. Malven, deputy forest supervisors.

Gallatin.—R. E. Bodley, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. Seely, forest supervisor, Helena (WU–Am, N).

Jefferson.—Scott Leavitt, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor; H. J. A. Grossmann, forest examiner.

Kootenai.—Glen A. Smith, forest supervisor, Libby (WU–Am, GN); John C. Ketridge, forest examiner.

Lewis and Clark.—Dwight L. Beatty, forest supervisor, Chouteau (WU—Am, GN); F. J. Jefferson, deputy forest supervisor.

Lolo.—Elers Koch, forest supervisor, Missoula (WU, P–Am, N); William W. Bennett, deputy forest supervisor.

Madison.—Roscoe G. Willson, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—J. C. Whitham, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–WF via Marmarth, N. Dak.)

SOUTH DAKOTA.

Sioux.—J. C. Whitham, forest supervisor, Camp Crook (WU via Bellefourche–WF via Marmarth, N. Dak.)

WASHINGTON.

Kaniksu.—J. F. Forsythe, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN via Priest River); H. F. Lindsay, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHISON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulating pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester. THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—ROBERT E. PRATT, district engineer.

FOREST MAPS AND SURVEYS.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.— ———, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU–Ad).

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF); Wm. O. Sauder, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–WF).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF); H. L. Borden, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utar, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF); R. S. Wheeler, forest examiner.

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, R. T. Guthrie, forest examiners. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–WF).

San Juan.—A. F. C. HOFFMAN, acting forest supervisor, Pagosa Springs (WU–WF).

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU–WF).

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil, Theodore Krueger, forest examiner, in charge. Bessey Nursery, Jos. A. Sweeney, assistant forest ranger, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Michael J. Sweeney, forest examiners.

Harney.—GEORGE A. DUTHIE, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor; R. A. Phillips, forest examiner.

WYOMING.

Bighorn.—ANDREW G. STOCKWELL, acting forest supervisor, Sheridan (WU–Ad); J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am.)

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P–Am.)

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); B. R. H. d'Allemand, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

P. G. REDINGTON, district forester; ALDO LEOPOLD, forest examiner, information and game protection.

LAW—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; L. V. SLONAKER, telephone engineer; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING, forest examiner. Entry surveys: R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

ENGINEERING.— ———.

FOREST MAPS AND SURVEYS.—W. H. GILL.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (P–WF); J. H. Sizer, deputy forest supervisor.

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); R. F. Balthis, deputy forest supervisor; Gordon T. Backus, forest examiner.

Chiricahua-Coronado.—DON P. JOHNSTON, forest supervisor, Tucson (WU–WF); Robert J. Selkirk, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor Safford (WU–WF).

Prescott.—J. C. MCNELTY, acting forest supervisor, Prescott (WU–WF).

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); George W. Kimball, forest examiner.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (WU, P–WF).

NEW MEXICO.

Alamo-Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); James S. Scott, deputy forest supervisor.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); E. G. Miller, deputy forest supervisor; H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF). Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); O. F. Arthur, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, asssistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, forest supervisor, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; S. C. SCRIBNER, scaler; N. B. ECKBO, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge. Pocatello Nursery: S. E. Bower, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Silver Lake, Utah (on Wasatch National Forest). Beaver Creek Nursery: Asa L. Brower, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer.

FOREST MAPS AND SURVEYS.————.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—L. W. HASTINGS, forest supervisor, Montpelier (WU–Am); Herman Work, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am); E. C. Sanford, deputy forest supervisor.

Idaho.—H. C. WILLIAMS, forest supervisor, McCall (WU–P); Lawrence J. Phelan, deputy forest supervisor.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, forest examiner.

Palisade.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); John Ingram, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU–WF); C. E. Favre, grazing studies.

Nevada.— ———, forest supervisor, Ely (WU–WF).

Ruby.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Santa Rosa.—VERNON METCALF, forest supervisor, Elko (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor; L. J. Palmer, grazing studies.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor; J. C. Roak, forest examiner.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor; Bryant S. Martineau, grazing studies.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF); J. A. Willey, grazing studies.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor; T. B. Nichols and H. W. Johnston, grazing studies.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); W. W. Smith, deputy forest supervisor; Wm. F. Tribe, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; L. H. WHITEMAN, in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, timber surveys.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, assistant pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

ENGINEERING.—F. H. FOWLER, district engineer; RALPH R. RANDELL, assistant district engineer.

FOREST MAPS AND SURVEYS.— ———.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Knower Mills, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); M. R. Tillotson, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Oscar M. Evans, forest examiner.

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supevisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.

Stainslaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. J. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; SHIRLEY BUCK, national forest inspector.

MAINTENANCE.—H. M. WHITE.

M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; NORMAN G. JACOBSON, forest examiner.

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, AUSTIN CARY, and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control; G. A. BRIGHT and A. A. GRIFFIN, forest examiners; ROBT. CRAIG, Jr., national forest examiner, timber surveys.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

ENGINEERING.—LEONARD LUNDGREN, district engineer.

FOREST MAPS AND SURVEYS.—ALLEN H. HODGSON.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, O. F. Ericson, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor; W. J. Sproat, forest examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; C. B. Neal, forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M EVANS, forest supervisor, Sumpter (WU via Baker–Am, WF via Baker); F. A. Matz, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, Geo. W. Hutton, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; A. F. Kerr, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF); E. J. Fenby, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN); W. K. Ramsdell, forest examiner.

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; FRANCIS KIEFER, assistant district forester; W. F. HILL, deputy forest supervisor; S. L. WOLFE, forest examiner, in charge of products; E. L. LINDSAY, forest examiner, exhibits.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU–WF); C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola, Fla. (WU, P); L. L. Bishop, forest examiner, land classification.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Laboratory: L. F. Hawley (reappointed), chemist in forest products; Charles R. Cressy, assistant chemist in forest products; Kenneth E. Skidmore, messenger boy; Cora M. Gallagher, clerk (typewriter).

DISTRICT 1.—Wm. L. Baldwin and Frank J. Klobucher, Flathead, forest assistants; John S. Bowen, Beartooth, Albert E. Cole and James A. Irvine, Deerlodge, Guy M. Brandborg and C. Freeman Martineau, jr., Helena, forest rangers; Georgia Hollier, Absaroka, Elizabeth P. Dill, Flathead, Ina M. Jenkins, Florence Coffin, Alice M. Lindsay, and Esther C. Stoll, clerks (stenographers and typewriters); Lloyd Zbinden, messenger boy.

DISTRICT 2.—Paul B. Whitney, Jesse P. Dunnagan, civil engineers and draftsmen; Herbert H. Kuphal, draftsman (topographic); Daniel J. McNamara, Leadville, forest clerk; Francis S. Morrison, Regina T. Bermine, clerks (stenographers and typewriters); Edwin L. Bennett, Cochetopa, Frank Gray, Montezuma, Paul D. Irwin, San Juan, Robt. E. Clark, jr., and Oscar L. Nelson, Shoshone, Frank H. Bailey, Washakie, forest rangers.

DISTRICT 3.—George D. Russell, Datil, Louis H. Waters, forest rangers; Antoine M. Caisse, Carson, clerk; Josephine Dye, Sitgreaves, Jane Dyer, Tonto, Edith P. K. Hall, clerks (stenographers and typewriters).

DISTRICT 4.—William L. Brett, Fillmore, forest clerk; Bess E. O'Neill, Humboldt, Howard D. Harris, Manti, clerks (typewriters); Alexander McQueen, Cache, Jack Albano, Palisade, forest rangers; Thoburn C. Lyon, draftsman (topographic).

DISTRICT 5.—Ira C. Butler, Lassen, forest clerk; Mary E. Crossley, Harold Sears, Lassen, Clarence W. Griggs, Sierra, clerks (stenographers and typewriters); Ralph W. Sinfield, blue printer.

DISTRICT 6.—Ruth M. Borland, clerk (stenographer and typewriter); Benj. A. Eddy, map colorist; Emil F. Dallenbach, messenger boy.

DISTRICT 7.—Wm. G. Morison, White Mountain; Charles W. Fritts, Thomas F. Hale, John E. Blalock, Joseph R. Gill, Tollie T. Hall, Wm. D. Jones, John W. Ryals, Arkansas, John F. Keckley, Potomac, John W. Crisman, Massanutten, Monroe Coffey, Boone, Max McCullough, Savannah, assistant forest rangers.

PROMOTED IN RANK.

OPERATION.—A. H. Cousins, district fiscal agent, District 6, to property assistant, Ogden Supply Depot.

DISTRICT 1.—J. C. Whithan, deputy forest supervisor, Beartooth, to forest supervisor, Sioux; E. A. Anderson, Blackfeet, forest ranger to deputy forest supervisor; W. J. Derrick, forest ranger, Helena, to deputy forest supervisor, Beartooth; F. J. Jefferson, Lewis and Clark, forest ranger to deputy forest supervisor; David S. Olson, forest ranger to planting assistant.

DISTRICT 2.—Earl S. Peirce, Medicine Bow, forest examiner to forest supervisor; James F. Conner, Harney, deputy forest supervisor to forest supervisor.

DISTRICT 3.—L. Vernon Slonaker, national forest examiner to telephone engineer; T. Earl Wylder, Tusayan, forest ranger to deputy forest supervisor; Robert F. Rhinehart, Alamo, John C. Vandevier and Ernest T. F. Wohlenberg, Coconino, Thomas P. Reid, Tusayan, forest rangers to scalers.

CHANGE IN DESIGNATION.

DISTRICT 2.—Jos. A. Sweeney, Nebraska, Chas. F. Capes, Routt, assistant forest rangers, to forest rangers.

DISTRICT 3.—William H. Pierce, Coconino, Kenneth C. Balcomb, assistant forest rangers, to forest rangers.

DISTRICT 6.—Raymond H. Chapler, Columbia, forest ranger, to forest assistant; Alex. G. Jackson, deputy forest supervisor, to forest examiner; H. Vivian Brown, assistant forest ranger, to forest ranger; Chas. J. Kraebel, forest ranger, to forest assistant.

RESIGNED.

RESEARCH.—Laboratory: F. W. Kressmann, chemist in forest products; Sidney D. Wells, engineer in forest products; Clyde L. Moore, assistant engineer in forest products.

DISTRICT 1.—George A. Schattenburg, Missoula, deputy forest supervisor; Alfred B. Hastings, Deerlodge, forest examiner; Joshua A. Cope, Flathead, forest assistant; Wm. W. Fuller, Bitterroot, Homer J. Barber, Beaverhead, Hubert P. Harmon, Blackfeet, Thomas Paine DeLano and Solomon E. Perlman, Cabinet, J. B. Taylor, Deerlodge, F. R. Paine, Flathead, Howard E. West, Gallatin, Charles Larson, Helena, G. M. Blackwell, Kootenai, forest rangers; R. W. French, Flathead, forest clerk; Rose A. McNamara, St. Joe, clerk (stenographer and typewriter); Charles F. Farmer, civil engineer; Napier Knightlie, draftsman (copyist-topographic).

DISTRICT 2.—R. P. Imes, Harney, forest supervisor; Herman E. Anderson, Bighorn, Vance I. Coe, Black Hills, Glenn Williams, Cochetopa,

A. E. Stephenson, Montezuma, Fred W. Ryden, San Juan, Frank O. Sparhawk, Shoshone, forest rangers; Ralph B. Grabill, Pike, clerk; John B. Sutherland, Leadville, Claude I. Depuy, Montezuma, forest clerks; Samuel M. Ballard, surveyor-draftsman; Jesse P. Dunnagan, civil engineer and draftsman; J. H. Ramskill, forest examiner.

DISTRICT 3.—Alexander Best, Carson, Joseph Eggum, Datil, John V. Hobbie, Lincoln, George R. Yorke, Prescott, Marion A. Gregory and Fabian F. McCarthy, Santa Fe, Paul E. Miller, Tusayan, forest rangers; Verna H. Seeley, forest clerk.

DISTRICT 4.—Rama Heikes, Caribou, Harrold C. Haglund, Powell, Harry H. Power, Salmon, forest clerks; John S. Bennett and Grant Carpenter, Ashley, Alfred C. Toland, Caribou, Thomas J. Burke, Fillmore, Joseph W. Asdale, Humboldt, Fred V. Diers, Lemhi, Raymond J. Becraft, Manti, Robert A. Tempest, Palisade, Philip Baker, Powell, Frank A. Travis, Ruby, Horace B. Howland, Sawtooth, Noel C. Heath, Uinta, Oliver F. Vose, Weiser, forest rangers; Florence E. Cooney, clerk (typewriter); George L. Peeples, draftsman (copyist-topographic); Robert E. Conner, property clerk.

DISTRICT 5.—Guy S. Exon and Wm. R. Darling, Cleveland, Walter L. Kelley and D. A. McMillan, Plumas, Jordan H. Horwege and Garrett M. Wikoff, Tahoe, forest rangers; Wm. L. Mayhew, Lassen, forest clerk.

DISTRICT 6.—Ernest Jameson, Okanogan, Ernest R. Paull, Olympia, assistant forest rangers; Milo C. Caughrean, Tongass, gas engineer; Emma M. Zimmer, Dorothea M. Koerber, clerks (stenographers and typewriters); Roy A. Knaup, draftsman.

DISTRICT 7.—W. A. Hopson, Monongahela, forest examiner.

DISMISSED.

DISTRICT 1.—Arthur C. Haines, Sioux, forest supervisor.

With deep regret announcement is made of the death of W. A. Smith, forest ranger, Santa Barbara, September 19; Joseph S. Noel, draftsman, Washington office, December 10; Alfred C. Anderson, clerk, Michigan, December 27; E. T. Wehrly, forest ranger, Sopris, December 29.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1916, which will be issued probably in April, 1917, is allotted to the Forest Service for its members. Copies will be supplied as in former years to district foresters and supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

SERVICE ORDER 47.

Establishment of Branch of Engineering—

The Branch of Engineering is hereby established in the Washington office of the Forest Service, under the direction of O. C. Merrill, chief engineer, comprising the present office of the chief engineer and the Office of Geography with its component sections of Atlas, Drafting, and Photography. The changes in organization and procedure involved will be effective January 1, 1917.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* T. D. Farrow and Fidelity & Deposit Co., of Maryland: Action on timber sale bond. Case closed upon payment by surety company of $2,000, full amount of bond, to cover damage sustained by United States by reason of Farrow's failure to comply with terms of timber sale contract.

United States *v.* Mrs. R. P. Galloway: Grazing trespass, civil. Wrote trespasser demanding $49.30, value of forage consumed. Letter was returned unclaimed. Supervisor reported that the woman had left the country and recommended that the case be dropped. Case closed in law.

United States *v.* Great Northern Railway Co., Winston Bros. Co., and C. W. Werdenhoff: Fire trespass, civil, Lewis and Clark National Forest. Petition for new trial filed in November, 1916.

United States *v.* Lane Lumber Co. (bankrupt): Timber trespass, civil, Coeur d'Alene National Forest. Proceedings before referee in bankruptcy November 25 in reference to priorities.

United States *v.* Hans L. Miller: Occupancy trespass, civil, Beartooth National Forest. Trespass on ranger station. Complaint filed November 18, 1916.

United States *v.* J. E. Sodergren: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $13.70, value of forage consumed.

United States *v.* Albert P. Wicks: Fire trespass, criminal, Madison National Forest. Information filed by United States attorney November 22, 1916.

Law Cases in District 2—

United States *v.* Roerig, Dunwoody, and Kirkley: Fire trespass, Pike National Forest. Case presented to grand jury for the District of Colorado on November 25; no indictment returned.

United States *v.* Thomas J. Van Arsdale: Defendant charged with personating a Government officer. Defendant entered a plea of guilty in the district court for the District of Colorado and was sentenced to pay a fine of $25 and costs, amounting to approximately $20.

United States *v.* Carbon Timber Co.: Timber trespass, Hayden National Forest. Judgment in favor of the United States in the sum of $4,507.70. There is included in this amount $1,883.55 interest, at the rate of 8 per cent per annum since December 31, 1907, the date of the final trespass.

United States *v.* Carbon Timber Co., and Elk Mountain Mercantile Co.: Fire trespass, Medicine Bow National Forest. Judgment in favor of the United States against the Elk Mountain Mercantile Co. in the sum of $22,076.46. Included in this amount is the sum of $2,099.79 damage to immature timber. The court refused to allow the inclusion of an item of $527.29, representing the amount expended by the Government in the payment of salaries of regularly employed forest officers, who assisted in extinguishing the fire.

United States *v.* W. H. McKinley: Grazing trespass, Montezuma National Forest. Case closed through payment of judgment in the sum of $300 and $320.02 costs, a total of $620.02.

United States *v.* Arthur Harvey: Occupancy trespass, Black Hills National Forest. Injunction granted by the district court for the District of South Dakota, enjoining defendant from continuing to occupy and use lands for agricultural and grazing purposes held by the defendant under placer mining locations; also decree ordering defendant to remove fences upon such lands.

United States *v.* Baatz and Peavey: Fire trespass, Routt National Forest. Case settled through payment of the sum of $140.

United States *v.* Safe Investment Gold Mining Co.: Suit to cancel patents to mining claims, Black Hills National Forest. Decision by Judge Elliott of the District of South Dakota in favor of the defendant company.

United States *v.* Frank Blackburn: Fire trespass, Pike National Forest. Settled by payment of $10.80.

United States *v.* Guy Jewell: Grazing trespass, Cochetopa National Forest. Settled by payment of $14.17.

Law Cases in District 3—

United States *v.* J. R. Martinez: Grazing trespass, Carson National Forest. Case closed on payment of $2.17, the value of the forage.

United States *v.* Daniel Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of $4.78, the value of the forage.

United States *v.* German Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of $11.22, the value of the forage.

United States *v.* E. Rockhill: Grazing trespass, Carson National Forest. Case closed on payment of $34.55, the value of the forage.

United States *v.* Presbitor Chavez: Grazing trespass, Manzano National Forest. Case closed on payment of $35.91, the value of the forage.

United States *v.* Newman & Hess: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $2, the value of the forage.

United States *v.* Alamogordo Lumber Co.: Timber trespass, Alamo National Forest. Case closed on payment of $22.71, the value of the timber.

United States *v.* Reid Cosheon Land and Cattle Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $32.48, the value of the forage.

United States *v.* W. W. Moore: Grazing trespass, Tonto National Forest. Case closed on payment of $487.80, the value of the forage.

United States *v.* Redondo Development Co.: Occupancy trespass, Santa Fe National Forest. Decision for defendant—appeal recommended.

United States *v.* Manuel Pino: Grazing trespass, Datil National Forest. Defendant's offer of $50 in settlement ($7 actual and $43 punitive damages) pending.

Law Cases in District 4—

United States *v.* Henry Cendagorta: Grazing trespass, Cache National Forest. Case closed on payment of $45.60, value of forage.

United States *v.* Alvin M. Ellis: Grazing trespass, Lemhi National Forest. Case closed on payment of $201.60, value of forage.

United States *v.* T. J. Glen: Grazing trespass, Weiser National Forest. Case closed on payment of $5.88, value of forage.

United States *v.* Joseph Hatch and Ralph Hicks: Grazing trespass, Wasatch National Forest. Case closed on payment of $25 actual damages and $25 punitive.

United States *v.* Roy Howland: Grazing trespass, Weiser National Forest. Case closed on payment of $8.40, value of forage.

United States *v.* LeMoyne Bros.: Grazing trespass, Sawtooth National Forest. Case closed on payment of $10.35, value of forage.

United States *v.* I. Ludovic: Grazing trespass, Minidoka National Forest. Compromise settlement offered, defendant to pay $7.20 actual damages, $42.80 puntitive damages, and $23.90 costs.

United States *v.* Oliver Martiny: Grazing trespass, Lemhi National Forest. Case closed on payment of $9.80, value of forage.

United States *v.* John E. Milleson: Grazing trespass, Wyoming National Forest. Case closed by settlement in the sum of $7.70, actual damages.

United States *v.* Elmer D. Reese: Grazing trespass, Lemhi National Forest. Case closed on payment of $24, value of forage.

United States *v.* J. S. Russell: Grazing trespass, Wasatch National Forest. Case closed on payment of $4.50, value of forage.

United States *v.* J. F. Skillern and Bros.: Grazing trespass, Sawtooth National Forest. Case closed on payment of $11.94, value of forage.

United States *v.* Wm. Smart: Grazing trespass, Ashley National Forest. Case closed on payment of $17.50, value of forage.

United States *v.* Stahley Bros.: Grazing trespass, Wasatch National Forest. Case closed on payment of $24.55, value of forage.

United States *v.* J. E. Strong: Grazing trespass, Minidoka National Forest. Case closed on payment of $23.64, value of forage.

United States v. Orson Williams's estate and Willard Williams: Grazing trespass, Ashley National Forest. Case closed on payment of $10.50, value of forage.

United States *v.* Wood Livestock Co.: Grazing trespass, Lemhi National Forest. Case closed on payment of $115.20, value of forage.

United States *v.* Thomas Tobin: Fire trespass, Salmon National Forest. Indictment returned by the grand jury at Pocatello, Idaho.

United States *v.* Charles Curtis: Fire trespass, Idaho National Forest. Defendant bound over in the sum of $200 to appear before United States court at Moscow, Idaho.

Law Cases in District 6—

United States *v.* John Illingsworth: Timber trespass, Oregon National Forest. Case closed on payment of $8.20, the value of the timber.

United States *v.* Mountain Mill Co.: Timber trespass, Rainier National Forest. Case closed on payment of $66.73, the value of the timber.

United States *v.* William P. Vernon: Grazing trespass, Fremont National Forest. Case closed on payment of $30, the forage value.

United States *v.* J. A. Burleigh: Grazing trespass, Wallowa National Forest. Case closed on payment of $50, the forage value.

United States *v.* A. E. Davidson: Fire trespass, Columbia National Forest. On November 10, 1916, A. E. Davidson was indicted by the Federal grand jury for setting out fire which destroyed Government timber. On November 15, 1916, Mr. Davidson plead guilty in the United States District Court for the Western District of Washington and was sentenced to pay a fine of $50. Sentence was suspended for 60 days to afford him an opportunity to raise the money.

United States *v.* P. B. Wickman: Timber trespass, Siskiyou National Forest. Case closed on payment of $10.96, the value of the timber.

United States *v.* Henry S. Neel: Grazing trespass, Umatilla National Forest. Case closed on payment of $37.24, the forage value.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 354.—Forests of Porto Rico; Past, Present, and Future, and Their Physical and Economic Environment.

Department Bulletin 426.—Sugar Pine.

Unnumbered publication.—Forestry Laws of Ohio.

Unnumbered publication.—Forestry Laws of Connecticut.

Office of the Secretary, Circular 69.—Forest Fires in the United States in 1915.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[January, 1917.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917

No. 9. Issued April 15, 1917.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1917.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; JOHN L. COBBS, Jr., in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.
EUGENE S. BRUCE, expert lumberman.
ARTHUR C. RINGLAND, forest inspector.

ACCOUNTS.

M. E. FAGAN, chief.

90456—17——1

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; A. O. WAHA, assistant district forester, on detail; GEORGE G. ANDERSON, inspector of records.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant; H. A. BEAUVERD, clerk.

PROPERTY AUDIT, OGDEN, UTAH.—J. C. FALCK, property auditor; W. E. THOMPSON, clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; ———, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge; Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Washington, D. C.

Range reserve experiments.—Jornado Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relation Service); G. E. Clement and W. N. Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director.

Commercial extension.—Rolf Thelen.

Review of results.—Frank J. Hallauer.

Lumber studies.—D. G. White.

DERIVED PRODUCTS.—Ernest Bateman, L. F. Hawley, A. W. Schorger, Howard N. Calderwood.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Chas. R. Cressey.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin, Milton H. Hostman.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Leslie R. Morris, Robt. L. Pettigrew.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Matthew E. Dunlap, Geo. M. Hunt, P. R. Hicks, M. C. Jensen.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Paul J. Siggers.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics and forest economics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris, R. K. Helphenstine, jr., and J. C. Nellis. Slack cooperage investigations, J. T. Harris. Box industry investigations, J. C. Nellis. Preparation of publications on uses of woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr. Lumber and stumpage price records, Franklin H. Smith. Collaborator, A. B. Strough, New York.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

LUMBERMAN'S EXAMINATIONS.—E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Moulton, Ala.; George E. Marshall, Andrews, N. C.

EXAMINATION OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Forest examiners: White Mountain Area, R. C. Hall, H. S. Davis, and S. H. Thompson, Gorham, N. H.; Natural Bridge

Area, H. M. Sears, Buena Vista, Va.; White Top Area, L. H. Steffens, Abingdon, Va.; Boone Area, E. M. Bruner, Lenoir, N. C.; Mount Mitchell Area, R. J. Noyes, Marion, N. C.; Savannah Area, C. E. Beaumont and Walter M. Moore, Clayton, Ga.; Nantahala Area, W. J. Damtoft (in charge of party), Andrews, N. C.; Alabama Area, W. R. Barbour (in charge of party), Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Carl F. Muzzey and Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, Potomac Area, and Massanutten Area, E. R. Conrad, Harrisonburg, Va.; Cherokee Area, W. N. Sloan, Blue Ridge, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Nantahala Area, James Denman, Andrews, N. C.; Savannah Area, Harold G. Wood, Clayton, Ga.; Boone Area, J. W. Fox, Lenoir, N. C.; Natural Bridge Area, Beverley M. Higginbotham, Buena Vista, Va.; Monongahela Area, Alfred R. Kinney, Elkins, W. Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys: George E. Taylor, Bristol, Tenn.; John E. Taylor, Madisonville, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher and Judson S. Bohannan, Lenoir, N. C.; Cameron F. McRae, Biltmore, N. C.; John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Lynchburg, Va.; W. L. Newman, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements.

MAINTENANCE.—KNOX MCANALLY.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—S. V. FULLAWAY, JR., and R. C. EGGLESTON.

LOGGING ENGINEERING.—J. W. GIRARD, logging engineer; F. R. MASON, forest examiner.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman; JOSEPH KITTREDGE, JR., forest examiner.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.—LENTHALL WYMAN.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—F. J. COOL.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho; Julius A. Larsen, forest examiner.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino, (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); F. I. Rockwell, forest examiner.

Kaniksu.—See Washington.

Nezperce.—CHARLES K. MCHARG, Jr., forest supervisor, Grangeville (WU–Am); George V. Ring and J. Arthur Brown, deputy forest supervisors.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); Ernest F. Jones, forest examiner.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF); A. O. Benson, forest examiner.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); W. J. Derrick, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU–Am); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Mallory N. Stickney, deputy forest supervisor; Abbott B. Silva, forest examiner.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell WU–Am, GN); E. A. Anderson, deputy forest supervisor.

Cabinet.—CARL M. STEVENS, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); C. N. Whitney, C. R. Clark, and W. C. Latane, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU–Am, GN); John H. Clack and S. St. J. Malven, deputy forest supervisors.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Wellman Holbrook, deputy forest supervisor; H. J. A. Grossmann, forest examiner.

Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); John C. Ketridge, forest examiner.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Chouteau (WU–Am, GN); F. J. Jefferson, deputy forest supervisor.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N); William W. Bennett, deputy forest supervisor.

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—J. C. WHITHAM, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–WF via Marmarth, N. Dak.)

SOUTH DAKOTA.

Sioux.—J. C. WHITHAM, forest supervisor, Camp Crook (WU via Bellefourche–WF via Marmarth, N. Dak.)

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN via Priest River.)

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHINSON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer; P. J. PAXTON, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester. THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.—F. C. MENDENHALL.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU–Ad).

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF); Wm. O. Sauder, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–WF).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF); H. L. Borden, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF).

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, R. T. Guthrie, forest examiners. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–WF).

San Juan.—A. F. C. HOFFMAN, acting forest supervisor, Pagosa Springs (WU–WF).

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU–WF).

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil, Theodore Krueger, forest examiner, in charge. Bessey Nursery, Jos. A. Sweeney, assistant forest ranger, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiche, deputy forest supervisor; Percy T. Smith and Michael J. Sweeney, forest examiners.

Harney.—GEORGE A. DUTHIE, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor; R. A. Phillips, forest examiner.

WYOMING.

Bighorn.—ANDREW G. STOCKWELL, acting forest supervisor, Sheridan (WU–Ad); J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P–Am).

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

P. G. REDINGTON, district forester; ALDO LEOPOLD, forest examiner, information, recreational uses, and game protection; WARD SHEPHARD, forest examiner.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; L. V. SLONAKER, telephone engineer; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING, forest examiner. Entry surveys: R. P. A. JOHNSON, C. A. LONG, and LEE C. DAVES, surveyors.

ENGINEERING.—RALPH R. RANDELL, district engineer.

MAPS AND SURVEYS.—W. H. GILL, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Gordon T. Backus, forest examiner.

Chiricahua-Coronado.—DON P. JOHNSTON, forest supervisor, Tucson (WU–WF); Robert J. Selkirk, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—J. C. MCNELTY, acting forest supervisor, Prescott (WU–WF).

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P–WF); George W. Kimball, forest examiner.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (WU, P–WF).

NEW MEXICO.

Alamo-Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); James A. Scott, deputy forest supervisor.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); E. G. Miller, deputy forest supervisor; Robert Munro, deputy forest supervisor; H. Basil Wales, forest examiner.

Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P–WF); O. F. Arthur, deputy forest supervisor. Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU–G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, forest supervisor, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; S. C. SCRIBNER, scaler; N. B. ECKBO, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge. Pocatello Nursery: S. E. Bower, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest). Beaver Creek Nursery: A. E. Oman, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of land classification; R. D. GARNER, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer.
MAPS AND SURVEYS.— ———.
Drafting.—F. I. SHAFER.
ROADS.—J. P. MARTIN, in charge.
WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am).
Cache.—See Utah.
Caribou.—L. W. HASTINGS, forest supervisor, Montpelier (WU–Am); Herman Work, deputy forest supervisor; T. B. Nichols, grazing studies.
Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).
Idaho.—E. C. SANFORD, forest supervisor, McCall (WU–P); Lawrence J. Phelan, deputy forest supervisor.
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am); C. F. Evans, forest examiner.
Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU–Am); C. D. Simpson, deputy forest supervisor.
Palisade.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); John Ingram, forest examiner.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.
Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.
Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU–Am); Herbert G. McPheters, deputy forest supervisor.
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am).

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU–WF); C. E. Favre, deputy forest supervisor.
Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).

Ruby.—VERNON METCALF, forest supervisor, Elko (WU–WF).
Santa Rosa.—VERNON METCALF, forest supervisor, Elko (WU–WF).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.
Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor; J. C. Roak, forest examiner.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor.
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); W. W. Smith, deputy forest supervisor; Wm. F. Tribe, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; L. H. WHITEMAN, in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner, improvements.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, logging engineer; D. C. BIRCH, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, timber surveys.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, assistant pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: J. O. MORROW, national forest examiner, in charge of district; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—R. E. L. BORGFELDT.

WATER POWER.—F. H. FOWLER, in charge.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Knower Mills, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF); M. R. Tillotson, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF); Oscar M. Evans, forest examiner.

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); E. B. Long, lumberman; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYERS, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. J. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; SHIRLEY BUCK, national forest inspector; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer; W. B. OSBORNE, deputy forest supervisor, fire protection.

MAINTENANCE.—H. M. WHITE.

INSPECTION.—Protection of Oregon & California Railroad lands and cooperation under Weeks law, NORMAN G. JACOBSON, forest examiner.

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, AUSTIN CARY, and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control; G. A. BRIGHT and A. A. GRIFFIN, forest examiners; ROBT. CRAIG, Jr., national forest examiner, timber surveys.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

ENGINEERING.— ———.

MAPS AND SURVEYS.—A. H. HODGSON, in charge.

Drafting.—R. H. ROBERTSON.

WATER POWER.—LEONARD LUNDGREN, in charge.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, O. F. Ericson, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor; W. J. Sproat, forest examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; Carl B. Neal, forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU–Am); F. A. Matz, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. Hale, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—R. L. Fromme, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, Geo. W. Hutton, forest examiners.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P–Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—Lewis A. Treen, Jr., acting forest supervisor, Seattle (WU, P–N, GN, WF); F. B. Kellogg, forest examiner.

Washington.—C. H. Park, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. Schmitz, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. Sylvester, forest supervisor, Leavenworth (WU–Am, GN); W. K. Ramsdell, forest examiner.

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; Franklin W. Reed, assistant district forester; H. O. Stabler, assistant district forester; Francis Kiefer, assistant district forester; W. F. Hill, deputy forest supervisor; S. L. Wolfe, forest examiner, in charge of products; E. L. Lindsay, forest examiner, exhibits.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. Huey, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. Clark, forest supervisor, Harrison (WU–WF); C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. Eldredge, forest supervisor, Pensacola, Fla. (WU, P); L. L. Bishop, forest examiner, land classification.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Monogahela.—H. L. JOHNSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah-Nantahala.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH—Laboratory: Henry Stohr, mechanical draftsman.

DISTRICT 1.—Jacob Roeser, jr., Coeur d'Alene, forest assistant; Thos. J. Carney, Beartooth; Jas. H. Bosworth, Flathead; Clyde P. Fickes, Gallatin; Wm. A. Schowe, Madison; Harry G. Ade, Kenneth Wolfe, and Samuel Cook, Missoula; Thos. E. Norton, Sioux, forest rangers; Elizabeth P. Dill, Flathead; Hazel Davenport, Kootenai, clerks (stenographers and typewriters); Le Vaughn Beaman, Blackfeet, clerk (typewriter); Jean Ewen and Wm. P. Stephenson, draftsman (topographic); Harold H. Lansing, draftsman (copyist-topographic); Sprague T. Simons, draftsman; Alice M. Brown and Carol S. Garby, clerks (stenographers and typewriters).

DISTRICT 2.—Ben G. Sucher, Battlemen; Walter Enbon, Gunnison; Elmer E. Bascom, Sopris, forest rangers; Ralph W. Gray, Bridger, forest clerk; Ruth H. Lockwood, Harney, clerk (stenographer and typewriter).

DISTRICT 3.—Walter M. Mickelson, Coconino; Frank Angle, Crook; Frank D. Harris, Datil; Hugh O. Cassidy, Gila; Hugh H. Higgins, Prescott; Clifford H. Stewart, Santa Fe; Lafayette S. Kartchner, Sitgreaves, forest rangers; Evelyn R. Price, Alamo-Lincoln, clerk (stenographer and typewriter); Herbert L. Phelps, Tonto, forest clerk; Lena Wind, clerk (stenographer and typewriter); Harry S. Patton, blue printer.

DISTRICT 4.—John S. Bennett (reappointment), Ashley; Samuel A. Buchanan (reappointment), Minidoka; Verne W. Earls, Herbert W. Johnston and David A. Shoemaker, Cache; Wilfred E. Tangren, La Sal, forest rangers; Herbert L. Cox, Toiyabe; John W. Siegel, Salmon; Lewis R. Walgren, Powell, forest clerks; William H. Drennon, draftsman (copoyist-topographer); John F. Purdy, messenger boy; John A. O'Connell.

DISTRICT 5.—Archie M. Conley, Feather River Experiment Station, clerk (stenographer and typewriter); Philip Liff, messenger boy.

DISTRICT 6.—Garrett B. Holloway, Crater, clerk (typewriter); Louise A. Grosse, clerk (stenographer and typewriter); Jennie M. Niehueser, telephone operator.

DISTRICT 7.—Monroe M. Plemmons, Arkansas, assistant forest ranger.

PROMOTED IN RANK.

RESEARCH—Laboratory: Carlile P. Winslow, assistant director to director.

DISTRICT 1.—Chas. K. McHarg, jr., forest examiner, Coeur d'Alene, to forest supervisor, Nezperce; Lenthall Wyman, forest ranger to forest examiner.

DISTRICT 2.—Earl B. Tanner, lumberman to logging engineer; Wm. J. Trembath, Michigan, clerk (stenographer and typewriter) to forest clerk.

DISTRICT 3.—Ward Shepard, forest ranger to forest examiner; Robert Munro, Gila, forest ranger to deputy forest supervisor; Ralph R. Randell, assistant district engineer, District 5, to district engineer.

DISTRICT 4.—Frederick L. Mott, forest ranger, Lemhi, to forest supervisor, Nevada; Dana Parkinson, deputy forest supervisor, Boise, to forest supervisor, Salmon; Earl C. Sanford, deputy forest supervisor, Challis, to forest supervisor, Idaho; Clarence E. Favre, Humboldt, grazing assistant to deputy forest supervisor; Charles D. Simpson, Minidoka, forest examiner to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—George V. Ring, Nezperce, forest supervisor to deputy forest supervisor (at his own request); William L. Baldwin, Flathead, forest assistant to forest ranger; James W. Girard, lumberman to logging engineer; Kenneth D. Swan, forest examiner to draftsman (copyist-topographic).

DISTRICT 4.—Angus M. Woodbury, surveyor, district office, to forest ranger, Fillmore; Bryant S. Martineau, Fishlake; Lawrence J. Palmer, Cache, forest rangers to grazing assistants.

DISTRICT 5.—Ernest B. Long, Shasta, deputy forest supervisor to lumberman; Swift Berry, forest examiner to logging engineer.

DISTRICT 6.—Axel W. Erickson, Columbia; David G. Hartsuck, Olympic; Albert Baker, Wenaha, assistant forest rangers to forest rangers.

RESIGNED.

RESEARCH.—Laboratory: Howard F. Weiss, director; Thos. R. C. Wilson, engineer in forest products; Clinton K. Textor, assistant engineer in forest products; S. F. Acree, chief, section of derived products.

ACQUISITION.—A. E. Hoxie, examiner of surveys; Dean W. Martin, forest examiner.

DISTRICT 1.—John E. David, Beaverhead, deputy forest supervisor; Herbert F. Lindsay, Kaniksu, forest examiner; Harrison M. Crane, Absaroka; Sidney C. Armitage, Beartooth; Wm. E. Jackson, Deerlodge; Alfred D. Neely, Kaniksu; Ray O. Bullerdick, Madison; Frank Hartman, Nezperce, forest rangers; Duane K. Lewis, Absaroka; Royal J. Gick, Kaniksu, forest clerks; Ethel S. Cotter, clerk (stenographer and typewriter).

DISTRICT 2.—Roy S. Wheeler, Leadville; B. R. H. d'Allemand, Shoshone, forest examiners; Roscoe L. Bloss and Walter F. Gilliam, Battlement; Henry T. Miller, Gunnison; L. D. J. Chaves, Rio Grande; Ed. H. Heavey, Shoshone; George A. Hutchins, Sopris, forest rangers; Thos. P. Wilgus, San Isabel, clerk; Bertha A. Ford, telephone operator; H. L. Miller.

DISTRICT 3.—Alston D. Morse and Frederic O. Knipe, Coconino; Gerald Merrill, Crook; Germain H. Gage, Gila; Edward H. Oldham, Prescott, forest rangers; Russell F. Balthis, Coconino, deputy forest supervisor; William E. Horsefield, Datil; Clement L. Lincoln, Tonto, forest clerks; Elsie C. Myers, clerk (typewriter).

DISTRICT 4.—John A. Pearson, Salmon; George C. Thompson, Nevada; Hubert C. Williams, Idaho, forest supervisors; Asa L. Brower, Beaver Creek Nursery; Harry B. Maris, Idaho, forest examiners; Fred H. Chase, Ora Cockrell, and Ray L. Dryer, Salmon; Ruby C. Fields, Idaho; Orlow H. Griffin, Powell; Samuel E. Henrie, Fillmore; Isaac W. Oldroyd, Fishlake; De Witt Russell, Payette; Fred W. Strong, La Sal; Paul Schulze, Humboldt; William Wiley Smith, Teton; Thomas E. Woolstenhulme, Uinta, forest rangers; Frank P. Collins, Humboldt, forest clerk; Thoburn C. Lyon, topographic draftsman; Felix T. Moore, clerk; Mary A. Dreager, clerk (typewriter); John N. Allen, messenger, supply depot.

DISTRICT 5.—Ernest G. Dudley, Sierra, forest examiner; Howard R. Higgins and Earl H. Thraves, Stanislaus; Evan A. Joy, Angeles; John B. Libeu, Santa Barbara; Albert E. Redstone and William H. Riegel, Sequoia, forest rangers; George J. Austin, Feather River Experiment Station; Clarence W. Griggs, Sierra; Peter C. Nichols, Sequoia; Charles T. White, Stanislaus, clerks (stenographers and typewriters); John C. Cumberland, messenger boy.

DISTRICT 6.—Moritz L. Mueller, Snoqualmie; Andrew J. Graden, Wenaha, forest rangers; Arnold J. Schuhmacher, Snoqualmie, clerk (stenographer and typewriter); Ann E. Mahony, clerk (stenographer and typewriter); Ina F. Strock, telephone operator.

DISTRICT 7.—R. F. Hemingway, Nantahala, forest examiner.

DISMISSED.

DISTRICT 3.—Charles H. Hinderer, Prescott, forest supervisor.

With deep regret announcement is made of the death of Frederick J. Holbrook, forest ranger, Flathead, February 28.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

FORESTER.

MOUNT IRELAND—

The U. S. Geographic Board at its meeting on April 4 designated the peak in township 8 S., range 36 E., on the dividing line between Baker and Grant Counties, Oreg., as Mount Ireland, in commemoration of the late Supervisor Henry Ireland.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Ole T. Esp: Grazing trespass, civil, Absaroka National Forest. Case closed on payment of $48, value of forage consumed.

United States *v.* Felicien Bonhomme: Grazing trespass, civil, Absaroka National Forest. Case closed on payment of $70, value of forage consumed.

United States *v.* Great Northern Railway Co., Winston Bros. Co., and C. W. Werdenhoff: Fire trespass, civil, Lewis and Clark National Forest. March 7, 1917, the defendants paid the judgment, costs, and interest, amounting to $53,793.50. Case closed.

Law Cases in District 2—

United States *v.* Foxpark Timber Co.: Fire trespass, Medicine Bow National Forest. This case involves damages in the sum of $697.89. The Secretary of Agriculture, on February 8, 1917, recommended to the Attorney General that the compromise offer of $571.30 be accepted. The Attorney General, on February 28, 1917, authorized the United States attorney for the district of Wyoming to accept the offer.

United States *v.* Frank C. Hunter, trustee in bankruptcy for the Elk Mountain Mercantile Co.: Petition filed January 31, 1917, to establish priority rights of the United States to funds held by trustee.

Law Cases in District 3—

United States *v.* Newman & Hess: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $10.93, the value of the forage.

United States *v.* Luis R. Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of $1.96, the value of the forage.

United States *v.* John H. Pearce: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $10, the value of the forage.

United States *v.* G. O. S. Cattle Co.: Timber trespass, Gila National Forest. Case closed on payment of $50.80, the value of the timber.

United States *v.* Medler Bros.: Grazing trespass, Tonto National Forest. Final decree requiring removal of all trespassing stock and awarding the United States $2,100 damages for past trespass.

United States *v.* Mrs. Mary Conrey: Grazing trespass, Prescott National Forest. Injunction granted March 5, requiring removal of stock by July 1.

United States *v.* Manuel Pino: Grazing trespass, Datil National Forest. Settled by payment of $50 ($7 actual and $43 puntive damages).

United States *v.* Theo. Cannard: Occupancy trespass, Carson National Forest. Complaint filed seeking the removal of an illegal fence.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Tusayan National Forest (Cape Horn Lode). Final decree March 23, sustaining cancellation of location by Interior Department, and enjoining further occupancy, conduct of business, or interference with forest administration, and requiring removal of buildings within 30 days. Requirement of removal of buildings to be suspended pending appeal if appeal is perfected within 30 days, and defendants permitted to occupy them pending such appeal, but for mining purposes only.

United States *v.* N. J. & B. A. Cameron: Occupancy trespass, criminal, Tusayan National Forest. Informations charging conduct of livery business on unpatented mining claim without permit. March 5, demurrers overruled, court holding that unpatented mining claim may be used for mining purposes only. March 22, defendants tried, convicted, and fined $5 each, with warning that further continuance of business would result in jail sentence. Court ruled that soliciting for livery business on a mining claim was the conducting of a livery business there, although the stables, office, and other structures connected with the business were situated elsewhere.

United States *v.* Wm. Coleman: Grazing trespass, criminal, Prescott National Forest. March 17, defendant fined $25 and costs, latter amounting to $84.40. Fine and costs paid.

Law Cases in District 4—

United States *v.* Frank Bower: Grazing trespass, Minidoka National Forest. Case closed on payment of $11.73, actual damages.

United States *v.* Frank Anderson: Grazing trespass, Fishlake National Forest. Case closed on payment of $4.14, actual damages.

United States *v.* J. S. Bartholomew & Co.: Grazing trespass, Fishlake National Forest. Case closed on payment of $4, actual damages.

United States *v.* Don Brunson: Grazing trespass, Fillmore National Forest. Case closed on payment of $2.70, actual damages.

United States *v.* Andrew Christiansen: Grazing trespass, Fillmore National Forest. Case closed on payment of $1, actual damages.

United States *v.* Denbrae Sheep Co.: Grazing trespass, Idaho National Forest. Case closed on payment of $35 actual and $50 punitive damages.

United States *v.* Gracien Eyros: Grazing trespass, Toiyabe National Forest. Hearing held before United States Commissioner at Battle Mountain, Nev., March 8. Defendant bound over for trial at May term of United States court at Carson City, Nev. Bond fixed at $500, which was given.

United States *v.* V. M, Fairbanks: Grazing trespass, Fishlake National Forest. Case closed on payment of $2.20, actual damages.

United States *v.* Thomas Foy: Grazing trespass, La Sal National Forest. Case closed on payment of $3, actual damages.

United States *v.* Hylton & Clayton: Grazing trespass, Humboldt National Forest. Defendants offer of $320.37, including $70.36 actual and $250 exemplary damages, was accepted.

United States *v.* Owen George: Grazing trespass, Fillmore National Forest. Case closed on payment of $11, actual damages.

United States *v.* Leroy C. Jones: Grazing trespass, Sawtooth National Forest. Secretary of Agriculture has recommended the acceptance of $90 offered in settlement. The Attorney General, by letter of March 14, 1917, authorized the United States attorney for Idaho to accept the offer and close the case.

United States *v.* C. A. McMaster: Grazing trespass, Minidoka National Forest. Case closed on payment of $19.13 actual and $25 punitive damages.

United States *v.* John E. Miles: Timber trespass, Cache National Forest. Case closed on payment of $10.52, value of timber taken.

United States *v.* Laborde Bros.: Grazing trespass, Toiyabe National Forest. Case closed on payment of $15.62, actual damages.

United States *v.* C. C. Moore and George Thiel: Grazing trespass, Payette National Forest. Case closed on payment of $60.80, actual damages.

United States *v.* George W. Sherbine: Grazing trespass, Sawtooth National Forest. Case closed on payment of $17.25, actual damages.

Law Cases in District 5—

United States *v.* Weed Lumber Co.: Timber trespass, Shasta National Forest. Trespassers paid $81 in full settlement of the case.

United States *v.* Walker Mining Co.: Timber trespass, Plumas National Forest. Settlement in full, in the sum of $2,009.73, received.

United States *v.* C. J. Quigley: Occupancy trespass, Klamath National Forest. Judgment in favor of Government for $35 and possession of the premises, together with costs of suit.

United States *v.* R. R. Scarborough: Fire trespass, Angeles National Forest. Payment of last installment, $58.25, made and case closed.

United States *v.* Curtz Consolidated Mining Co.: Timber trespass, Mono National Forest. Full settlement of case made by payment of $104.60.

United States *v.* J. H. Porter and the Altoona Quicksilver Co.: Timber trespass, Shasta National Forest. Compromise settlement of $5,774.93 accepted and case closed.

United States *v.* Oscar Hotchkiss: Grazing trespass, Modoc National Forest. Full settlement of case made by payment of $8.50.

United States *v.* Coggins Bros.: Timber trespass, Shasta National Forest. Settlement of case made by payment of $5,000.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 418.—Western Yellow Pine in Oregon.

Department Bulletin 440.—Lumbering in the Sugar and Yellow Pine Regions of California.

Department Bulletin 474.—True Mahogany.

Department Bulletin 508.—Yields from the Destructive Distillation of Certain Hardwoods (Second Progress Report).

Department Bulletin 509.—The Theory of Drying and its Application to the New Humidity Regulated and Recirculating Dry Kiln.

Department Bulletin 519.—Poles Purchased.

Unnumbered publication.—Forestry Laws of Massachusetts.

Secretary's Report 114.—Some Public and Economic Aspects of the Lumber Industry.

Yearbook Extract 688.—Farms, Forests, and Erosion.

Yearbook Extract 696.—Opening up the National Forests by Road Building.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[April, 1917.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917

No. 10. Issued July 15, 1917.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1917.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
(On temporary detail to War Department.)

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; JOHN L. COBBS, Jr., in charge of information.
FINDLEY BURNS, in charge of technical review.
Educational cooperation, DON CARLOS ELLIS.
Proofs and forms, CLAUDE M. BALLARD.
GEORGE B. SUDWORTH, dendrologist.

ACCOUNTS.

M. E. FAGAN, chief.

2346—17——1

OPERATION.

D. D. BRONSON, ALLEN S. PECK, and A. O. WAHA, forest inspectors; GEORGE G. ANDERSON, inspector of records.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MCLAUREN, property clerk.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant; H. A. BEAUVERD, clerk.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor; W. E. THOMPSON, clerk.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; R. M. Ross, acting chief State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.— ———.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Washington, D. C.

Range reserve experiments.—Jornado Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relation Service); G. E. Clement and W. N. Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director.

Commercial extension.—Rolf Thelen.

Review of results.—Frank J. Hallauer.

Lumber studies.—D. G. White.

DERIVED PRODUCTS.—Ernest Bateman, L. F. Hawley, Howard N. Calderwood.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Chas. R. Cressey.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Eloise Gerry, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin, Milton H. Hostman.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, A. K. Armstrong, Leslie R. Morris.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Matthew E. Dunlap, Geo. M. Hunt, P. R. Hicks, M. C. Jensen.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Paul J. Siggers.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics and forest economics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris, R. K. Helphenstine, jr., and J. C. Nellis. Slack cooperage investigations, J. T. Harris. Preparation of publications on uses of woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr., and A. M. McCreight. Lumber and stumpage price records, Franklin H. Smith. Collaborator, A. B. Strough, New York.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumbermen's examinations: E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Marion, N. C.; George W. Marshall, Robbinsville, N. C. Forest Examiners: White Mountains, R. C. Hall (in charge of party), H. S. Davis, and S. H. Thompson, Gorham, N. H.; Natural Bridge Area, H. M. Sears and party, Buena Vista, Va.; Massanutten and Potomac Areas, E. D. Clark, Woodstock, Va.; Georgia

Area, L. H. Steffens, Blue Ridge, Ga.; Boone and Mount Mitchell Areas, R. J. Noyes and party, Marion, N. C.; Savannah Area, C. E. Beaumont (in charge of party), Walter M. Moore, R. C. Eggleston, and Edward Brailove, Clayton, Ga.; Nantahala Area, W. J. Damtoft (in charge of party) and George F. Greenleaf, Andrews, N. C.; Alabama Area, W. R. Barbour (in charge of party), Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, examiner of surveys, Washington, D. C. Examiners of surveys: White Mountain Area, Carl F. Muzzey and Frederick A. Gardner, Gorham, N. H.; White Top Area, E. R. Conrad, Abingdon, Va.; Savannah Area, W. N. Sloan, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Nantahala Area, James Denman, Asheville, N. C.; Pisgah Area, J. W. Fox and Walter H. Sullivan, Asheville, N. C.; Natural Bridge Area, Beverley M. Higginbotham, Buena Vista, Va.; Monongahela Area, Alfred R. Kinney, Elkins, W. Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Bristol, Tenn.; John E. Taylor, Madisonville, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Cameron F. MacRae and Judson S. Bohannan, Biltmore, N. C.; John W. Van Hoy, Marion, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; W. L. Newman, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—R. H. RUTLEDGE, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

MAINTENANCE.—KNOX MCANALLY.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

Administrative assistants.—C. L. BILLINGS and H. L. BAKER.

LOGGING ENGINEERING.—J. W. GIRARD, logging engineer; F. R. MASON, lumberman.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.—D. R. BREWSTER, E. C. ROGERS, and JOSEPH KITTREDGE, Jr.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.— ———.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—F. J. COOL.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.— ———, Priest River, Idaho; Julius A. Larsen, forest examiner.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino, (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); James H. Hull and F. I. Rockwell, forest examiners.

Kaniksu.—See Washington.

Nezperce.—CHARLES K. MCHARG, Jr., forest supervisor, Grangeville (WU–Am); George V. Ring and F. J. Jefferson, deputy forest supervisors.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N, W).

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF); A. O. Benson, forest examiner.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); W. J. Derrick, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU–Am); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU–Am, N); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); E. A. Anderson, deputy forest supervisor.

Cabinet.—CARL M. STEVENS, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); R. A. Hamilton, deputy forest supervisor; C. N. Whitney, C. R. Clark, and W. C. Latane, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU–Am, GN); S. St. J. Malven, deputy forest supervisor.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); H. J. A. Grossmann, deputy forest supervisor.

Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); Leslie F. Vinal, deputy forest supervisor; John C. Ketridge, forest examiner.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Chouteau (WU–Am, GN); O. C. Bradeen, deputy forest supervisor.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

NORTH DAKOTA.

Dakota.—J. C. WHITHAN, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche–WF via Marmarth, N. Dak.)

SOUTH DAKOTA.

Sioux.—J. C. WHITHAN, forest supervisor, Camp Crook (WU via Bellefourche–WF via Marmarth, N. Dak.)

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN, via Priest River); Ernest F. Jones, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHINSON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer; P. J. PAXTON, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; HAROLD L. BORDEN, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.—F. D. MENDENHALL.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs, (WU–Ad).

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU–WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF); Wm. O. Sauder, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–WF); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF); Percy T. Smith, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF).

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, R. T. Guthrie, forest examiners. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor.

Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad).

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–WF).

San Juan.—A. F. C. HOFFMAN, acting forest supervisor, Pagosa Springs (WU–WF).

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU–WF).

Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU–WF).

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN).

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil, Theodore Krueger, forest examiner, in charge. Bessey Nursery, Jos. A. Sweeney, assistant forest ranger, in charge.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; Michael J. Sweeney, forest examiner.

Harney.—GEORGE A. DUTHIE, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor; R. A. Phillips, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P–Am); Chas. F. Bliss, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); Ray Peck, deputy forest supervisor.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

P. G. REDINGTON, district forester; ALDO LEOPOLD, forest examiner, information, recreational uses, and game protection; WARD SHEPHARD, forest examiner.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; L. V. SLONAKER, telephone engineer; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING, forest examiner. Entry surveys: R. P. A. JOHNSON and LEE C. DAVES, surveyors.

ENGINEERING.—C. A. LONG, surveyor.

MAPS AND SURVEYS.—C. F. FARMER, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P–WF); Robert J. Selkirk, deputy forest supervisor.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU–WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams (WU, P–WF); George W. Kimball, forest examiner.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, acting forest supervisor, Grand Canyon (WU, P–WF).

NEW MEXICO.

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU–G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); Robert Munro, deputy forest supervisor.

Gila.—O. F. ARTHUR, acting forest supervisor, Silver City (WU, P–WF); Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogardo (WU–WF); James A. Scott, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF); H. Basil Wales, forest examiner.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P–G, WF); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; S. C. SCRIBNER, lumberman; N. B. ECKBO, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge. Pocatello Nursery: S. E. Bower, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest). Beaver Creek Nursery: A. E. Oman, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of land classification; R. D. GARVER, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.
ENGINEERING.—J. P. MARTIN, district engineer.
MAPS AND SURVEYS.— ———.
Drafting.—F. I. SHAFER.
ROADS.—J. P. MARTIN, in charge.
WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Walter G. Mann, deputy forest supervisor.
Cache.—See Utah.
Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU–Am); G. G. Henderson, deputy forest supervisor; T. B. Nichols, grazing studies.
Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).
Idaho.—LAWRENCE J. PHELAN, forest supervisor, McCall (WU–P); J. C. Roak, deputy forest supervisor.
Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU–Am); C. E. Evans, forest examiner.
Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU–Am); J. W. Stokes, forest examiner.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.
Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.
Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Halley (WU–Am).
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor; J. E. Ingram, forest examiner.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU–WF); C. E. Favre, deputy forest supervisor.
Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.
Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor.
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); Wm. F. Tribe, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; L. H. WHITEMAN, in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner, improvements.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, logging engineer; D. C. BIRCH, forest examiner; J. C. ELLIOTT, lumberman.

FOREST INVESTIGATIONS.—EDWARD N. MUNNS, forest examiner, Seven Oaks, Redlands, Cal.; STUART B. SHOW, forest examiner, Quincy, Cal.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, assistant pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner; Land classification; J. O. MORROW, national forest examiner, in charge of district; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—R. E. L. BORGFELDT.

WATER POWER.—F. H. FOWLER, in charge.

PRODUCTS.—C. A. KUPFER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. MASE, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Knower Mills, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P–WF).

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF).

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); E. B. Long, lumberman; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; M. R. Tillotson, deputy forest supervisor, timber sales.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernest V. Jotter, forest examiner; Oscar M. Evans, forest examiner, timber surveys.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, direct forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; SHIRLEY BUCK, national forest inspector; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

MAINTENANCE.—H. M. WHITE.

INSPECTION.—Protection of Oregon & California Railroad lands and cooperation under Weeks law, NORMAN G. JACOBSON, forest examiner.

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control; G. A. BRIGHT and A. A. GRIFFIN, forest examiners.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—THORTON T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

ENGINEERING.— ———.

MAPS AND SURVEYS.—A. H. HODGSON, in charge.

Drafting.—R. H. ROBERTSON.

WATER POWER.—LEONARD LUNDGREN, in charge.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, Fred A. Matz, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor; W. J. Sproat, forest examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am); W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am. WF, N); Ralph S. Shelley, deputy forest supervisor; Carl B. Neal and W. B. Osborne, forest examiners.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. V. Horton, grazing examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU–Am); F. E. Jones, deputy forest supervisor; T. J. Starker and O. F. Ericson, forest examiners.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, Geo. W. Hutton, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Robt. Craig, jr., forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); W. K. Ramsdell, deputy forest supervisor.

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester.

OPERATION.—H. O. STABLER, assistant district forester.

SILVICULTURE.—FRANCIS KIEFER, assistant district forester; S. L. WOLFE, products.

GRAZING.—FRANKLIN W. REED, assistant district forester.

LANDS.—FRANKLIN W. REED, assistant district forester; W. F. HILL, land classification.

ENGINEERING.—H. O. STABLER, assistant district forester, in charge.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU–WF); C. J. Heller, forest examiner.

FLORIDA.

Florida.— ———, Garniers, Fla. (WU, P); L. L. Bishop, acting forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, San Juan.

PURCHASE AREAS.

Alabama.—L. L. BISHOP, acting forest supervisor, Garniers, Fla.

Boone.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Monongahela.—H. L. JOHNSON, deputy forest supervisor, Elkins, W. Va. (WU, P–Ad).

Mount Mitchell.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Nantahala.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. J. FRITZ, forest supervisor, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

ON FURLOUGH FOR MILITARY SERVICE.

WASHINGTON OFFICE.—Henry S. Graves, Forester (temporary detail to War Department); Arthur C. Ringland, forest inspector; Edward S. Bryant, forest inspector; Eugene L. Lindsey, forest examiner; Edgar C. Hirst, collaborator.

District 1.—Donald H. Clark, grazing assistant, district office; Clark Miles, Cabinet, forest examiner; Frederick Cappel, Gallatin, forest clerk; Ray M. Kingsley, Helena, forest ranger.

District 2.—Percy J. Paxton, forest examiner, district office; William H. Curwen, surveyor-draftsman, district office; John W. Cook, clerk, district office; Michael J. Sweeney, Black Hills, forest examiner; Rufus J. Pilcher, Black Hills, forest ranger; Ray C. Montgomery, Durango, forest ranger; Richard T. Guthrie, Pike, forest examiner; Walter F. Goodman, Shoshone, forest ranger.

District 3.—Hugh G. Calkins, Gila, forest supervisor; John D. Guthrie, Coconino, forest supervisor; Howard B. Ricketts, district office, clerk; Wm. L. Scofield, Coconino, forest ranger; L. Vernon Slonaker, district office, telephone engineer.

District 4.—Miller S. Benedict, Sawtooth, forest supervisor; Herman Work, Caribou, deputy forest supervisor; Earl Clifford Sanford, Idaho, forest supervisor.

District 5.—Vance Brown, Plumas, scaler; Frederick H. Fowler, district office, district engineer.

District 6.—Kirk P. Cecil, surveyor, district office; Frederick W. Rase, surveyor, district office; Francis S. Fuller, Olympic, forest assistant; Harold A. Browning, Olympic, assistant forest ranger; Jefferson M. Stewart, Oregon, clerk; James Frankland, Oregon, forest ranger.

District 7.—Inman F. Eldredge, Florida, forest supervisor; Alfred C. Christensen, Arkansas, forest clerk.

APPOINTED.

Laboratory.—Frank J. Yanker, laboratory aid and engineer.

District 1.—Alex. T. Cowley, Blackfeet; Eugene R. McGlaughlin and Charles F. Makibbin, Deerlodge; Thomas P. Maloy, Lolo; Andrew H. Larson and Courtland S. Winn, jr., Sioux, forest assistants; D. H. Bethune, Louis Crombie, and James L. McDonell, Coeur d'Alene; Jos. S. Fea. Pend Oreille, scalers; Jas. F. Brooks, Blackfeet; George E. Owen, Cabinet; James K. Ward, Kaniksu; Russell N. Cunningham, Nezperce; Chas. A. MacGregor, Selway; Otto E. York, Sioux, forest rangers; Raymond Fager, Beaverhead, forest clerk; Anna H. Bridwell, Helena, clerk (stenographer and typewriter).

District 2.—Herman F. Mader and Stephen A. Wallace, surveyor-draftsmen; Mrs. Margaret Cummings, telephone operator; Andrew J. Loftus, San Isabel, forest clerk; Mrs. Amy M. Doering, clerk (typewriter); Eloda B. Dean, Gunnison, and Marjorie E. Bunger, Pike clerks (stenographers and typewriters); John G. Brooks and Berry W. Phelps, Arapaho; Grover L. Sanders, Battlement; Charles B. Morgareidge, Bighorn; Lesley E. Griffiths and William A. Robison, Black Hills; Herry A. Cheeseman, Bridger; J. Earl Oliver, Harney; Edward H. Stickney, Michigan; Karl L. Janouch, Nebraska; Raymond P.

Inskeep, Rio Grande; George P. McClanahan, Routt; Jesse C. Russell, San Isabel; Orrin M. Davis, Shoshone; Robert A. Zeller, Superior; George R. Zeigler, White River, forest rangers.

DISTRICT 3.—Raymond William Eddy, messenger boy; Prudence M. Eddis, Apache; Frances M. Chapman, Santa Fe; John R. Towles, Tonto, clerks (typewriters); Carrie V. Stuck, Prescott, clerk (stenographer and typewriter); Frederick L. Meeker, Manzano, clerk; Frank Bascom, Prescott; Maximilian M. Bruhl, Carson; H. Norton Cope, Crook; William Hackett, Tonto; Ferry D. Lewis, Datil; Roy Swapp, Apache; Edward L. Yott, Lincoln, forest rangers.

DISTRICT 4.—Arthur L. Smith, Lemhi; Allen G. Folster, Manti; J. Ray Boren, Minidoka; Joshua A. Brower, Palisade; Tura M. Aldous, Sevier; George A. Green, jr., Wasatch; Jesse L. Bedwell and Virgil C. Moody, Weiser; Norman Kingsley Olmstead, forest rangers; Raymond T. Forbes, Dixie; John A. Hogg, jr., Weiser, forest clerks; Cynthia Johnson, Wasatch; Leo A. Harris, clerks (stenographers and typewriters); Earl R. Scrafford, surveyor-draftsman; Frank Nevins, clerk; Elsie Powell, clerk (typewriter); Bernard C. Wheeler, unskilled laborer.

DISTRICT 5.—Willard J. Miller, messenger; Henry C. Smith, California; Catherine A. Maher, Modoc; Alex. H. Van Ewyk, Sequoia; Nellie M. Hennessey, Trinity, clerks (stenographers and typewriters).

DISTRICT 6.—Earl A. Gregg, clerk (typewriter); Frank G. Cearns, Minam; Evalyn Eddy, Snoqualmie, clerks (stenographers and typewriters); Royal J. Gick, Snoqualmie; Jos. I. Steel, Whitman, forest clerks; Clyde O. Bloom, Minam; Jos. L. Jacob, Oregon; Paul W. Robbins, Umatilla; Benjamin A. Eddy, forest rangers; N. Leroy Cary, forest assistant.

DISTRICT 7.—Robert C. Brown and Everett B. Stone, jr., Natural Bridge; James D. Ruble, Alabama; Forrest D. Bronson, White Mountain; James T. Foltz, Shenandoah, assistant forest rangers.

PROMOTED IN RANK.

DISTRICT 1.—R. A. Hamilton, Deerlodge, forest assistant to deputy forest supervisor; H. J. A. Grossman, Jefferson, forest examiner to deputy forest supervisor; Orrin C. Bradeen, forest ranger, Helena, to deputy forest supervisor, Lewis and Clark; H. L. Baker, Kootenai, forest ranger to deputy forest supervisor; R. L. Woesner, Blackfeet, scaler to lumberman; Fred R. Mason, forest examiner to lumberman.

DISTRICT 3.—Don P. Johnston, forest supervisor to assistant district forester; Edward G. Miller, Prescott; Ira T. Yarnall, Tusayan, deputy forest supervisors to forest supervisors; Earl W. Loveridge, Santa Fe, forest ranger to deputy forest supervisor.

DISTRICT 4.—Dana Parkinson, deputy forest supervisor, Boise, to forest supervisor, Salmon; Charles D. Simpson, Caribou; Lawrence J. Phelan, Idaho; Herbert G. McPheters, Sawtooth, deputy forest super-

visors to forest supervisors; Thomas V. Pearson and George G. Henderson, Weiser, forest rangers to deputy forest supervisors; John C. Roak, Fillmore, forest examiner to deputy forest supervisor; David A. Shoemaker, Sevier, forest ranger to grazing assistant; A. Rosalie Holberg, map colorist to copyist topographic draftsman.

DISTRICT 6.—Philip T. Harris, deputy forest supervisor, Rainier, to forest supervisor, Okanogan; Floyd V. Horton, Umatilla, forest ranger to grazing assistant; Willett F. Ramsdell, Wenatchee, forest examiner to deputy forest supervisor; Ira E. Jones, Whitman, forest ranger to deputy forest supervisor.

DISTRICT 7.—E. Murray Bruner, Luquillo; Jay J. Fritz, White Mountain, forest examiners to forest supervisors; J. Grady Siler, jr., Pisgah, assistant forest ranger to forest ranger.

CHANGE IN DESIGNATION.

OPERATION.—Alpheus O. Waha, assistant district forester to forest inspector.

LABORATORY.—Ovid M. Butler, assistant district forester to assistant director, Forest Products Laboratory.

DISTRICT 1.—Calvin A. Dahlgren, Coeur d'Alene; Louis H. Foote, Flathead; Alfred J. Feary, Kaniksu, scalers to lumbermen; Harold H. Lansing, copyist topographic draftsman to topographic draftsman.

DISTRICT 2.—Thos. V. Keefe, Sopris, forest ranger to forest assistant.

DISTRICT 4.—Frank J. Ryder, forest supervisor to national forest examiner; Sidney C. Scribner, scaler to lumberman.

DISTRICT 5.—F. H. Hafley, national forest examiner to telephone engineer.

DISTRICT 6.—Harold D. Foster, Crater, forest examiner to forest supervisor; Fred A. Matz, Crater, deputy forest supervisor to national forest examiner; Wm. B. Osborne, jr., Oregon, deputy forest supervisor to forest examiner; Edwin J. Fenby, Rainier, forest examiner to deputy forest supervisor; Howard B. Oakleaf, district engineer in forest products to forest examiner.

RESIGNED.

OPERATION.—James B. Adams, assistant forester, in charge.

GRAZING.—Alfred E. Aldous, grazing examiner.

LABORATORY.—Solomon Acree, chief, section of derived products; Arlie W. Schorger, chemist in forest products; Lee Thompson, laboratory aid and engineer; Robert L. Pettigrew, assistant engineer in forest products.

DISTRICT 1.—J. Arthur Brown, Nezperce; Wellman Holbrook, Jefferson, deputy forest supervisors; Edward P. Keron, St. Joe, scaler; Abbott B. Silva, Bitterroot, forest examiner; J. S. Paddock and Mark Edick, Absaroka; Philip A. Clack, Beaverhead; James A. Irvine, Deerlodge; Samuel T. Byars, Kaniksu; Henry A. Kroger, Missoula; Alexan-

der T. Macnab, Sioux, forest rangers; David T. Noren, Kootenai, forest clerk; Georgia Hollier, Absaroka, clerk (stenographer and typewriter); Homer S. Youngs, grazing examiner; D. M. Conner, national forest examiner.

DISTRICT 2.—Byron L. Fitch, draftsman; Frank B. Notestein, Medicine Bow, forest examiner; Myron E. Poyer, Bridger; Eva J. Crossman, Gunnison; Mrs. Stella R. Gray, clerks (stenographers and typewriters); Harry O. Decker, Montezuma, clerk; George Lowe, Harney; Chas. B. Pool, Nebraska, forest clerks; William B. Mullen and Paul F. Barker, Arapaho; Elbridge F. Ball, Black Hills; Harry A. Goodale, Michigan; George E. Belknap, Nebraska; Evan J. Davis, Routt; Charles L. Dickson, San Isabel; William Heritage, Superior, forest rangers.

DISTRICT 3.—Joseph A. Barrett, Manzano; James Brown, Prescott, forest clerks; William M. Champayne, draftsman; Charles D. Hodson, surveyor; Cecile M. Waudby Champayne, Alice L. McMillin, clerks (stenographers and typewriters); Emil Hendricks, Coronado; Willis M. Baker, Coconino; Albert J. Connell, Santa Fe; Walter J. Perry, Carson, forest rangers; Harold Greene, Tusayan, forest supervisor.

DISTRICT 4.—Alfred P. Larson, Dixie; Lewis L. Baird and Ruby C. Fields, Idaho; James H. Jones and Christopher W. Pfost, Palisade; Forrest E. Robb, Payette; Carlton F. Clark, Ray L. Dryer, and Joseph Gautier, Salmon; James G. Imeson, Teton; Nicholas S. Phelan, Weiser, forest rangers; Edgar G. Hapke, Weiser, clerk; Robert B. Haskell, Minidoka; Hensley G. Harris, Targhee; John A. Hogg, jr., Weiser, forest clerks; Leo A. Harris, clerk (stenographer and typewriter); John Bohnlofink, draftsman (topographic); John F. Squires, unskilled laborer.

DISTRICT 5.—Frank Keegan, messenger; Matthew J. Keegan, Cleveland; John P. Luccock, Inyo; Francis D. Bucklew and Roy L. Snelling, Modoc; Robert R. Martin, Sequoia; Robert C. McKenzie, Sierra; George E. Poore, Tahoe; Wm. H. Woodhams, jr., Trinity, forest rangers; Archie M. Conley, Feather River Station, clerk (stenographer and typewriter).

DISTRICT 6.—Cecil W. Freeman, messenger boy; John C. Rainier, Chelan; Wm. G. Malott, Okanogan; Leroy E. Garwood and Geo. R. Ledford, Oregon; Oliver C. Klingensmith and Frank L. Kingsley, Rainier; Norman G. Macauley, Washington, forest rangers; Robert Kelcynske, Minam; Stella G. Baird and John M. Schurr, Snoqualmie, clerks (stenographers and typewriters); Harry M. Hale, Okanogan, forest supervisor; Benjamin Irving, Santiam, clerk; Oliver M. Porter, Whitman, forest assistant.

With deep regret announcement is made of the death of Oscar E. Lorenz, forest ranger, Pike, May 31; and Elizabeth V. Garth, clerk, Washington office, June 21.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

FORESTER.

Cooperation with Smithsonian Institution—

The Secretary of the Smithsonian Institution has requested the Forest Service to cooperate in bringing to the attention of the Institution discoveries of interesting and valuable objects on National Forests, since it is desirable that the Government have the opportunity of obtaining such objects for its collection. The materials most desired are fine mineral specimens, examples of silicified wood, invertebrate and vertebrate fossils, meteorites of both iron and stony varieties. Meteorites are of particular interest and their occurrence should be reported promptly whenever practicable. Of the vertebrate fossils, skulls and teeth are of greater importance than mere fragments of bones of the trunk. Samples of specimens should be forwarded under official frank to the Smithsonian Institution, Washington, D. C., and the supervisor should make report to the Forester and transmit it through the district office. The frank should bear the name and address of the sender. Forest officers will keep in mind the request of the Secretary and cooperate, as far as is practicable, without interfering with Forest Service work.—*From Forest Service Notes for May, 1910.*

ACCOUNTS.

Shipment of household goods—

On appeal from the Auditor for the State and Other Departments the Acting Secretary of Agriculture has recently ruled that employees of the Department of Agriculture transferred from one official station to another, for permanent duty, are not authorized to transport their household goods, by express, at Government cost.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Bonners Ferry Lumber Co.: Timber trespass, civil, Pend Oreille National Forest. Case closed upon payment of $325, value of timber cut.

United States *v.* Martin Olsen: Timber trespass, civil, St. Joe National Forest. Case closed upon payment of $68, value of timber cut.

United States *v.* Otto Westfall: Timber trespass, civil, Lolo National Forest. Case dropped upon recommendation of Forest Service.

United States *v.* Johnnie Gross, jr.: Occupancy trespass, civil, Sioux National Forest. Case closed upon payment of $49.25, damage assessed.

United States *v.* Chicago, Milwaukee & St. Paul Railway Co.: Occupancy trespass, civil, Coeur d'Alene National Forest. This case involves the right of way of the Chicago, Milwaukee and St. Paul Railway Co. through the Coeur d'Alene National Forest. On June 4 the Supreme Court of the United States rendered a decision in favor of the United States, affirming the decree of the Circuit Court of Appeals and the decision of the District Court for Idaho. Damages awarded to the United States, $68,489. Case closed.

Law Cases in District 2—

United States *v.* Fred Schoettlin: Grazing trespass, Washakie National Forest. Judgment in favor of United States for $65.78 and costs of suit.

United States *v.* M. K. Slane: Grazing trespass, Cochetopa National Forest. Case closed on payment of $9.42, the value of the forage.

United States *v.* Ed. Cunningham (alias Ed. Kitchener): Defendant charged with personating Government officer. Defendant entered a plea of guilty and was sentenced to the Federal prison at Leavenworth, Kans., for a period of 13 months. The costs of the suit, $72.65, were also taxed against the defendant.

Law Cases in District 3—

United States *v.* J. P. Waldron et al.: Timber trespass, Prescott National Forest. Case closed on payment of $111.96, the value of the timber.

United States *v.* Ernest Reidhead: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $87.60, the value of the forage.

United States *v.* Jose and Leon Pouquette: Grazing trespass, Prescott National Forest. Case closed on payment of $60, the value of the forage.

United States *v.* J. Frank Duran: Grazing trespass, Carson National Forest. Settlement by payment of $54.57 actual and $25 punitive damages.

United States *v.* Jack Brenner: Grazing trespass, Carson National Forest. Criminal information filed.

United States *v.* Marion D. Rawls: Occupancy trespass, Alamo National Forest. Information charging squatting on National Forest land filed. Defendant arrested; released under $300 bond.

United States *v.* Dick Shults: Occupancy trespass, Tusayan National Forest. Information charging cultivation of National Forest land without permit filed. Defendant arrested; released under $300 bond.

United States *v.* Medler Bros.: Grazing trespass, Tonto National Forest. Petition for attachment for contempt filed June 4, charging defendants with failure to comply with injunction requiring the removal of stock from the Forest by June 1. On service of order to show cause defendants began a new round-up. Hearing on contempt proceedings continued pending result of defendant's round-up.

United States *v.* C. L. Posey: Property trespass, Alamo National Forest. Defendant arrested, charged with burning ranger station. Held for grand jury under $1,000 bond.

United States *v.* M. H. Marley: Fire trespass, Apache National Forest. Case closed on payment of $100 in settlement.

United States *v.* Severiano Martinez: Timber trespass, Crook National Forest. Defendant arrested and held for grand jury under $500 bond. Information filed; plea of guilty entered. Defendant sentenced to 10 days in jail and to pay a fine of $50. He had already remained in jail 20 days because of his inability to furnish bond.

United States *v.* Jesus Martinez: Timber trespass, Crook National Forest. Defendant arrested and held for grand jury under $200 bond. Information filed; plea of guilty entered. Defendant fined $75, which was paid.

State of Arizona *v.* Feliciano Mares: Fire trespass, Apache National Forest. Defendant arrested and taken before justice of the peace, Apache County, Ariz. Plea of guilty entered and fine of $25 imposed, which was paid.

Law Cases in District 4—

United States *v.* Utah Power and Light Co., Cache National Forest.

United States *v.* L. L. Nunn, Fillmore National Forest.

United States *v.* Beaver River Power Co., Fillmore National Forest.

In the above cases involving occupancy trespass, the Supreme Court, on March 19 (243 U. S., 389), held that the Act of 1866 is superseded by the Act of February 15, 1901 (31 Stat., 790), so far as the development of hydroelectric power is concerned, and that rights of way over Government lands for that purpose may be acquired only under the latter statute. It also holds that State laws, including those relating to the exercise of eminent domain, have no application to lands of the United States, and establishes the right of the Secretary of Agriculture to make regulations concerning the use of National Forest land for power purposes.

United States *v.* Gracien Eyros: Grazing trespass, Toiyabe National Forest. Pleaded guilty in United States court at Carson City, Nev., May 1, to grazing sheep on the Toiyabe National Forest without permit. Fined $150 and costs, which were paid. Case closed.

United States *v.* Gracien Eyros: Grazing trespass, Toiyabe National Forest. Case closed on payment of $4 actual damages.

United States *v.* F. M. Brown: Grazing trespass, Cache National Forest. Case closed on payment of $2.40 actual and $25 punitive damages to United States attorney.

United States *v.* Cohn, Meyers & Sons: Grazing trespass, Cache National Forest. Case closed on payment of $60 actual damages to United States attorney.

United States *v.* L. A. Olsen: Grazing trespass, Manti National Forest. Case closed on payment of $23.30 actual and $50 punitive damages.

United States *v.* Bicknell & Gemmell: Grazing trespass, Cache National Forest. Case closed on payment of $51.20 actual damages.

United States *v.* Matthew Gray: Grazing trespass, Dixie National Forest. Case closed on payment of $13.35 actual damages.

United States *v.* Robert Gray: Grazing trespass, Dixie National Park Case closed on payment of $16.65.

United States *v.* Alfred Johnson, Sr.: Grazing trespass, Manti National Forest. Case closed on payment of $82.08 actual damages.

United States *v.* Thomas Mackey: Grazing trespass, Weiser National Forest. Case closed on payment of $22.50 actual damages.

United States *v.* O'Neill Bros.: Grazing trespass, Minidoka National Forest. Case closed on payment of $24.75 actual damages.

United States *v.* G. W. Litts: Timber trespass, Toiyabe National Forest. Case closed on payment of $22.50 actual value of timber cut.

Law Cases in District 5—

United States *v.* San Jacinto Box and Lumber Co.: Fire trespass, Cleveland National Forest. Hearing in Federal court. Verdict for plaintiff, $710.22, cost of extinguishing the fire.

Pacific Gas and Electric Co. *v.* Houston et al.: Injunction to restrain forest officers from preventing the building of a pipe line, Tahoe National Forest. Case dismissed on motion of plaintiff.

United States *v.* J. G. Botkin: Grazing trespass, California National Forest. Case closed on payment of $32.56, value of the forage.

United States *v.* F. D. Oiler: Grazing trespass, Modoc National Forest. Case closed on payment of $22, value of the forage.

United States *v.* H. M. Grover (St. Louis Placer): Cancellation of patent, Eldorado National Forest. Final decree filed canceling patent subject to mortgage. Assets to be martialed and mortgage canceled.

Law Cases in District 6—

United States *v.* C. H. Watt: Fire trespass, Siuslaw National Forest. On June 18 C. H. Watt was arrested on a bench warrant from the United States District Court for setting out fire on the Siuslaw National Forest. He was released on bond pending trial.

United States *v.* Twin Falls Logging Co.: Timber trespass. Paid damages in the sum of $24.91 in full settlement of the claims of the United States for timber cut in trespass.

United States *v.* Mineral Springs Hotel Co.: Timber trespass, Columbia National Forest. On January 12 the Government Mineral Springs Hotel Co. paid damages in the sum of $3.10 in full settlement of the claims of the United States for cord wood cut in trespass from the Columbia National Forest.

United States *v.* James E. Shepperson: Perjury, Wenatchee National Forest. On April 24 an indictment was returned by the Federal grand jury at North Yakima against James E. Shepperson for perjury in connection with his testimony in the case of United States *v.* Heirs of Samuel Hogan, deceased. Shepperson was arrested and brought before the United States attorney, where he admitted the charge, and stated that he would plead guilty when arraigned.

United States *v.* John Rust: Grazing trespass, Okanogan National Forest. On March 30 an indictment was returned against John Rust by the Federal grand jury for a grazing trespass on the Okanogan National Forest. Mr. Rust was arrested, plead guilty, and was fined $10, which he paid.

United States *v.* I. M. Mills: Grazing trespass, Ochoco National Forest. On May 12, 1917, I. M. Mills paid damages in the sum of $10.40 in full settlement of the claims of the United States for a grazing trespass on the Ochoco National Forest.

United States *v.* Roscoe Brown: Grazing trespass, Minam National Forest. On February 23, 1917, Roscoe Brown paid damages in the sum of $2.53 in full settlement of the claims of the United States for a grazing trespass on the Minam National Forest.

United States *v.* Charles Patrick: Timber trespass, Wenaha National Forest. On February 17, 1917, Charles Patrick paid damages in the sum of $3 in full settlement of the claims of the United States for cord wood cut in trespass from the Wenaha National Forest.

United States *v.* J. Sinnott: Disorderly conduct, Oregon National Forest. On June 6, J. Sinnott was fined in the district court for Multnomah County the sum of $10 for disorderly conduct upon Eagle Creek camp ground.

United States *v.* Harry Hill: Timber trespass, Oregon National Forest. On June 6, in the district court of the United States for Oregon, Harry Hill was fined the sum of $5 for cutting a yew tree on the Eagle Creek camp ground.

United States *v.* M. C. Enyart: Disorderly conduct, Oregon National Forest. On June 18, in the juvenile court for the county of Multnomah, State of Oregon, M. C. Enyart was fined $5 for driving a motorcycle with a girl passenger up the Eagle Creek Trail, a feat which endangered the lives not only of himself and the girl, but of any others whom he should chance to meet.

United States *v.* D. P. McAuliffe: Grazing trespass, Fremont National Forest. On May 12, 1917, David P. McAuliffe paid damages in the sum of $114, same being in full for actual damages in the sum of $64 and punitive damages in the sum of $50 for grazing trespass on the Fremont National Forest. This payment was made without trial, on the demand of the United States district attorney.

United States *v.* Eugene Crane: Occupancy trespass, Washington National Forest. On June 18 Judge Neterer, of the United States District Court for the Western District of Washington, granted a default judgment in the case of United States *v.* Eugene Crane to oust the defendant from a tract of land within the Washington National Forest which he claimed under Indian allotment. This judgment is ordered to become final at the end of 60 days, in order to allow defendant time to remove crops, etc.

United States *v.* Mrs. S. A. Perry, and Belford and Taylor: Occupancy trespass, Olympic National Forest. On June 18, 1917, Judge Neterer, of the United States District Court for the Western District of Washington, handed down a decision in the cases of United States *v.* Mrs. S. A. Perry, and United States *v.* Belford and Taylor, involving certain lots in block 32, Port Angeles, Wash., declaring that the title of the United States was superior to that of the defendants and ordering them to vacate the lots in question.

Frankin K. Lane *v.* Svan Hogland, Claims, Siskiyou National Forest. In the case of Franklin K. Lane, plaintiff in error, *v.* Svan Hogland, the Supreme Court of the United States on May 21, 1917, affirmed the decision of the court of appeals for the District of Columbia, and held that the proviso of section 7 of the act of March 3, 1891 (26 Stat., 1095), applied to Government protests or contests, and that in order for a protest or contest to defeat the confirmatory effect of the proviso it must be a proceeding sufficient in itself to place the entryman on his defense and to require of him a showing of material fact when served with a notice thereof, affirming the conclusion in the Jacob A. Harris case (42 L. D., 611).

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 460.—The Pine Trees of the Rocky Mountain Region.

Department Bulletin 475.—Reforestation on the National Forests.

Department Bulletin 479.—Nursery Practice on the National Forests.

Department Bulletin 481.—The Status and Value of Farm Woodlots in the Eastern United States.

Department Bulletin 497.—Tests of Western Yellow Pine Car Sills, Joists, and Small Clear Pieces.

Department Bulletin 506.—Production of Lumber, Lath, and Shingles in 1915, and Lumber in 1914.

Department Bulletin 523.—Utilization of Ash.
Department Bulletin 549.—Crossties Purchased and Treated in 1915.
Department Bulletin 552.—The Seasoning of Wood.
Farmers' Bulletin 788.—The Windbreak as a Farm Asset.
Unnumbered Publication.—Forestry Laws of New Hampshire.
Unnumbered Publication.—Instruction for Making Timber Surveys in the National Forests.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[July, 1917.]

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WASHINGTON : GOVERNMENT PRINTING OFFICE : 1917

No. 11. Issued October 15, 1917.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1917.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

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Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornado Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

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ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

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SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumbermen's examinations: E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Johnson City, Tenn.; George W. Marshall, Clayton, Ga. Forest Examiners: White Mountains, H. S. Davis and S. H. Thompson, Gorham, N. H.; Natural Bridge Area, H. M. Sears

and party, Buena Vista, Va.; Massanutten and Potomac Areas, E. D. Clark, Woodstock, Va.; Georgia Area, L. H. Steffens, Blue Ridge, Ga.; Boone and Mount Mitchell Areas, R. J. Noyes and party, Marion, N. C.; Savannah Area, C. E. Beaumont (in charge of party), Clayton, Ga.; Nantahala Area, W. J. Damtoft (in charge of party) and George F. Greenleaf, Andrews, N. C.; Alabama Area, W. R. Barbour (in charge of party), Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, national forest examiner, Washington, D. C. Examiners of surveys: White Mountain Area, Carl F. Muzzey, Frederick A. Gardner, and J. W. Fox, Gorham, N. H.; White Top Area, E. R. Conrad, Abingdon, Va.; Savannah Area, W. N. Sloan, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Nantahala Area, James Denman, Asheville, N. C.; Pisgah Area, Walter H. Sullivan, Asheville, N. C.; Natural Bridge Area, Beverley M. Higginbotham, Buena Vista, Va.; Monongahela Area, Alfred R. Kinney, Elkins, W. Va.

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RESEARCH.—E. C. ROGERS.

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Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATIONS.

Priest River, Kaniksu National Forest.— ———, Priest River, Idaho; Julius A. Larsen, forest examiner.

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Kaniksu.—See Washington.

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Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); E. A. Anderson, deputy forest supervisor.

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Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Chouteau (WU–Am, GN); O. C. Bradeen, deputy forest supervisor.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

SOUTH DAKOTA.

Sioux.—J. C. WHITHAM, forest supervisor, Camp Crook (WU via Bellefourche–WF via Marmarth, N. Dak.).

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN, via Priest River).

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHINSON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forest examiner in charge; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOOBMAN, assistant; HAROLD L. BORDEN, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.— ———

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs, (WU–Ad).

Battlement.—JOHN W. SPENCER, forest supervisor, Collbran (WU–WF).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF); Wm. O. Sauder, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–WF).
Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–WF); Wm. R. Fraser, deputy forest supervisor.
Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–WF); Percy T. Smith, forest examiner.
Hayden.—See Wyoming.
Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.
La Sal.—See Utah, District 4.
Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–WF).
Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU–WF).
Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.
Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–WF); Walter F. Bowers, deputy forest supervisor.
Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.
San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–WF).
San Juan.—A. F. C. HOFFMAN, forest supervisor, Pagosa Springs (WU–WF).
Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU–WF).
Uncompahgre.—J. W. LOWELL, JR., forest supervisor, Delta (WU–WF); Crosby A. Hoar, forest examiner.
White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs WU–WF); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.
Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–GN); Chas. L. Cecil, deputy forest supervisor.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil. Bessey Nursery, Halsey.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—GEORGE A. DUTHIE, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor; R. A. Phillips, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie, (WU, P–Am); Chas. F. Bliss, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; ALDO LEOPOLD, forest examiner, information, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; WARD SHEPARD, forest examiner, assistant in operation; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, MURRELL W. TALBOTT, HUGH M. BRYAN, and PAUL H. ROBERTS, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING and H. D. BURRALL, forest examiners. Entry surveys: R. P. A. JOHNSON, surveyor.

ENGINEERING.— ———.

ROADS.—C. A. LONG, acting.

WATER POWER.—C. A. LONG, acting.

MAPS AND SURVEYS.—LEE C. DAVES, acting.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge; S. S. Van Boskirk and C. E. Behre, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); John A. Adams, deputy forest supervisor.

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P–WF); Robert J. Selkirk, deputy forest supervisor.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU–WF); H. Basil Wales, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams (WU, P–WF). GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (P–WF).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU–G); Edward P. Ancona, deputy forest supervisor; Frank T. Murphey, forest examiner.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); Robert Munro, deputy forest supervisor.

Gila.—O. F. ARTHUR, forest supervisor, Silver City (WU, P–WF); James A. Scott, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); William J. Anderson, deputy forest supervisor; J. Wilbur O'Byrne and Marinus Westveld, forest examiners.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P–G, WF); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; S. C. SCRIBNER, lumberman.

PLANTING.—JAMES M. FETHEROLF, in charge. Pocatello Nursery: L. F. Watts, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest). Beaver Creek Nursery: A. E. Oman, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of land classification; R. D. GARVER, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. I. SHAFER.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; F. S. Baker, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am).
Cache.—See Utah.
Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU–Am); G. G. Henderson, deputy forest supervisor; T. B. Nichols, grazing studies.
Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).
Idaho.—WALTER G. MANN, forest supervisor, McCall (WU–P); J. C. Roak, deputy forest supervisor.
Lemhi.—VERNON METCALF, forest supervisor, Mackay (WU–Am); C. E. Evans, forest examiner.
Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU–Am); J. W. Stokes, forest examiner.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.
Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. S. Stewart, deputy forest supervisor.
Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU–Am); Leslie E. Dodge, deputy forest supervisor.
Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU–Am); Samuel W. Stoddard, deputy forest supervisor; J. E. Ingram, forest examiner.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—CLARENCE E. FAVRE, forest supervisor, Elko (WU–WF); Chas. DeMoisy, deputy forest supervisor.
Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.
Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor.
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); Louis B. Koch, scaler, in charge of Standard Timber Co, sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); Nils B. Eckbo, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

ROY HEADLEY, acting district forester; L. H. WHITEMAN, in charge information.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—CLARENCE WILEY, in charge; FREDERICK H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; D. C. BIRCH, forest examiner; J. C. ELLIOTT, lumberman.

FOREST INVESTIGATIONS.—EDWARD N. MUNNS, forest examiner, Los Angeles, Cal. (care Forest Service); STUART B. SHOW, forest examiner.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, assistant pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner; Land classification and entry surveys: P. L. DAY, national forest examiner in charge of field work in district.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

WATER POWER.—F. H. FOWLER.

MAPS AND SURVEYS.— ———.

Drafting.—R. E. L. BORGFELDT.

PRODUCTS.—CARY HILL, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF); Knower Mills, forest examiner.

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (P–WF).

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF).

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); E. B. Long, lumberman; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); Chester E. Jordan, deputy forest supervisor; J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; M. R. Tillotson, deputy forest supervisor, timber sales.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernst V. Jotter, forest examiner; Oscar M. Evans, forest examiner, timber surveys.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

MAINTENANCE.—H. M. WHITE.

SILVICULTURE.—F. E. AMES, assistant district forester; THORNTON T. MUNGER, forest examiner; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; BRUCE HOFFMANN, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLASSIFICATION, BOUNDARIES, AND USES.—C. J. BUCK.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor, Seattle; WM. RYLE TEED, national forest examiner, State House, Olympia, Wash.

ENGINEERING.— ———.

MAPS AND SURVEYS.—A. H. HODGSON, in charge.

Drafting.—R. H. ROBERTSON.

WATER POWER.—R. R. RANDELL, acting.

PRODUCTS.—CLAUDE E. GREIDER, acting in charge, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A. WU–AP, Am); R. L. Fromme, forest supervisor on detail; George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor; T. J. Starker, forest examiner.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.— ———, forest supervisor, Bend (WU, P); W. J. Sproat, forest examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T–Am).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; Carl B. Neal and W. B. Osborne, forest examiners.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. V. Horton, grazing examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU–Am); I. E. Jones, deputy forest supervisor; O. F. Ericson, forest examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—J. ROY HARVEY, acting forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Trenn, jr., deputy forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN); Robert Craig, jr., deputy forest supervisor.

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

OPERATION.—H. O. STABLER, assistant district forester.

SILVICULTURE.—F. W. REED, assistant district forester.

GRAZING.—C. L. SMITH, national forest examiner.

LANDS.—F. W. REED, assistant district forester; W. F. HILL, land classification.

ENGINEERING.—H. O. STABLER, assistant district forester, in charge.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—C. J. HELLER, acting forest supervisor, Harrison (WU–WF).

FLORIDA.

Florida.—L. L. BISHOP, acting forest supervisor, Pensacola, Fla. (WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

PURCHASE AREAS.

Alabama.—L. L. BISHOP, acting forest supervisor, Pensacola, Fla.

Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).

Monongahela.—H. L. JOHNSON, deputy forest supervisor, Elkins, W. Va. (WU, P–Ad).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah (includes Boone, Mount Mitchell, Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, forest examiner, in charge, Abingdon, Va. (WU, P–So).

White Mountain.—J. J. FRITZ, forest supervisor, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

WASHINGTON OFFICE.—William B. Greeley, assistant forester; R. Y. Stuart and Allen S. Peck, forest inspectors; R. C. Hall and W. M. Moore, forest examiners; D. T. Mason, collaborator.

DISTRICT 1.—Topliff O. Paine, forest ranger, Sioux; William M. Rush, forest ranger, Cabinet; Kenneth Wolfe, forest ranger, Cabinet; Joseph Kittredge, jr., forest examiner, district office; John C. Ketridge, forest examiner, Missoula; Emil A. Anderson, deputy forest supervisor, Blackfeet; James F. Brooks, forest ranger, Blackfeet; Donald R. Brewster, forest examiner, district office; J. C. De Camp, grazing assistant, Clarence W. Beaman, messenger, E. F. Jones, forest examiner, F. J. Klobucher, forest ranger, E. J. Yeomans, forest ranger.

DISTRICT 2.—John Burgess, surveyor draftsman, district office; Thomas H. Gill, forest ranger, Colorado; Hal L. Stults, forest ranger, Black Hills; Fred B. Agee, deputy forest supervisor, Pike; J. Earl Oliver, forest ranger, Harney; Fred D. Mendenhall, surveyor draftsman, district office; Lewis L. Segur, forest ranger, Routt; Raymond P. Inskeep, forest ranger, Rio Grande; Frank L. Archer, forest clerk, Shoshone; C. M. Granger, assistant district forester, district office; Walter C. Clemmons, forest ranger, Holy Cross; Edwin L. Bennett, forest ranger, Cochetopa.

DISTRICT 3.—Robert L. Deering, forest examiner, district office; George W. Kimball, forest examiner, Tusayan; Alfred W. Voight, forest ranger, Coconino; Oscar F. Schaefer, forest ranger, Coconino; Carl H. Riblett, forest ranger, Coconino; Raymond F. Grefe, forest ranger, Grand Canyon; Henry C. Deutsch, forest ranger, Coconino; James H. Billingslea, jr., forest ranger, Apache; E. T. F. Wohlenberg, forest examiner, Coconino; Rollin C. Hill, forest ranger, Lincoln; Ralph W. Hussey, forest ranger, Gila; Walter C. Lowermilk, forest ranger, Santa Fe; Fred H. Miller, forest ranger, district office; Percy H. Harley, forest clerk, Coronado; Ferry D. Lewis, forest ranger, Datil; Albert W. Hendrix, forest ranger, Coronado; Clifford R. Minner, forest ranger, Datil; Clifford H. Stewart, forest ranger, Santa Fe; Robert B. Ewing, forest ranger, Datil; Robert H. Zieger, forest ranger, Datil; Robert C. Salton, forest ranger, Datil; Bascom H. Brown, forest ranger, Santa Fe; Roy Swapp, forest ranger, Apache; Louis Ketcham, forest ranger, Datil; Harry A. Chamberlain, forest ranger, Tonto; Charles E. Simpson, forest ranger, Carson; Edgar L. Perry, forest

ranger, Carson; Emanuel Fritz, forest assistant, Fort Valley Exp. Sta.; Stanley F. Wilson, forest ranger, Coronado; Matthew J. Culley, forest ranger, Santa Fe; Thorvald S. Hansen, forest assistant, Fort Valley Exp. Sta.; H. Norton Cope, forest ranger, Crook; Enoch W. Nelson, grazing assistant, district office; Theron R. Littlefield, forest ranger, Tonto; George E. Galer, forest ranger, Apache.

DISTRICT 4.—L. E. Hicks, forest ranger, Wyoming; Tura M. Aldous, grazing; Jack Albano, forest ranger, Targhee; E. Morgan Pryse, forest ranger, Targhee; John B. Barr, forest ranger, Weiser; James F. Dubuar, forest assistant, Wasatch; John Gilman, forest ranger, Sawtooth; Guy C. Hendrickson, forest clerk, Sawtooth; Fred H. Betts, forest ranger, Minidoka; Jesse L. Bedwell, forest ranger, Weiser; Max B. Baldenburg, clerk, district office; Harry E. Malmstein, grazing assistant, Sevier; Vern A. Bird, forest ranger, Ashley.

DISTRICT 5.—Coert DuBois, district forester; Lloyd P. Emerick, forest clerk, Shasta; Evan W. Kelley, national forest examiner, district office; David P. Godwin, national forest examiner, district office; Martin E. White, forest ranger, Shasta; John K. Berry, scaler, Sierra; Duncan Dunning, forest assistant, Plumas; William H. Gallaher, forest examiner, district office; Swift Berry, logging engineer, district office; Ed Badertscher, temporary clerk, Plumas; Rollin A. Fairchild, forest clerk, Klamath; E. Leonard Lundgren, engineer, district office; C. L. Rixson, forest clerk, Monterey; Ivan A. Cuff, forest ranger, Cleveland; Vincent E. Speers, forest clerk, Stanislaus; Edwin F. Smith, forest ranger, Lassen.

DISTRICT 6.—Charles J. Kraebel, forest assistant, district office; Raymond H. Thompson, forest ranger, Colville; George M. Sadler, forest ranger, Rainier; Harry R. Elliott, forest ranger, Colville; Herbert S. Ward, clerk, district office; Emil F. Dallenbach, messenger boy, district office; William H. Gibbons, forest examiner, district office; Robert H. Weitknecht, forest assistant, district office; William E. White, forest examiner, Minam; C. S. Chapman, forest assistant, district office; H. B. Oakleaf, forest examiner, district office; Royal J. Girk, forest clerk, Snoqualmie; Shirley Buck, national forest inspector, district office.

DISTRICT 7.—E. V. Clark, forest supervisor, Ozark; S. L. Wolfe, forest examiner, district office; Francis Kiefer, assistant district forester, district office.

APPOINTED.

DISTRICT 1.—Paul C. Kitchen and Wm. J. McCarthy, Blackfeet, forest assistants; Earl V. Storm, Jefferson, grazing assistant; Howard R. Flint, Flathead, timber cruiser; Frank E. Norton, Bitterroot, Errol D. Crittenden, St. Joe, scalers; W. R. Johns, Absaroka, M. G. Ramsey, Beaverhead, Arnold H. Lynn, Cabinet, Howard McGill, Helena, forest rangers; Karl J. Kirkpatrick, Madison, forest clerk; Carla C. Bartel-

son, Absaroka, Mattie C. Payne, Pend Oreille, clerks (stenographers and typewriters); H. C. Kuhl, assistant engineer.

DISTRICT 2.—H. Ellis Sealing, draftsman (topographic); Lizzie Tarr, Gunnison, clerk (stenographer and typewriter); Sheldon C. Barnum, Black Hills, John E. Krause, Hayden, Clarence L. Kerns and Walter C. Clemmons, Holy Cross, Jesse M. Mann and Winthrop H. Merriam, Pike, John A. Cox, Sopris, Thomas A. Denley and Elbert V. Everett, Superior, Thomas E. Jacques, Uncompahgre, Frank L. Trickel, White River, forest rangers.

DISTRICT 3.—H. H. Chapman, assistant district forester; Enoch W. Nelson, grazing assistant; Charles F. Farmer, civil engineer; Ira K. Cummings, Carson, forest clerk; Grace M. Sweeney, Coronado, Helen A. Sample, Datil, Bertha M. Hoffner, Sitgreaves, Joyce Chase, clerks (stenographers and typewriters); Ruth Safford, Santa Fe, clerk (typewriter).

DISTRICT 4.—Albert E. Blood, Ashley, Joshua A. Brower and John F. Woodman, Targhee, Clarence Wyatt, Toiyabe, forest rangers; Lawrence E. Horne, Fillmore, clerk (stenographer and typewriter); Edna Baker, Fillmore, Muriel M. Littlefield and Howard J. Stratford, Humboldt, clerks (typewriters); James Nelson, unskilled laborer.

DISTRICT 5.—Catherine C. Deneen and Zitella Smith, Shasta, clerks (stenographers and typewriters); Pearl Boothe, Sierra, telephone operator; Fred P. Cronemiller, jr., Modoc, grazing assistant.

DISTRICT 6.—Ivy I. Boeck and Ida E. Ringstedt, clerks (stenographers and typewriters); William H. Goodrich and Oliver W. Johnston, forest rangers; Frank B. Myers, Karl G. Meschke, and Robert A. Zeller, forest assistants.

PROMOTED IN RANK.

DISTRICT 1.—Lewis T. Morgan, Jefferson, forest ranger to deputy forest supervisor; C. C. Delavan, forest assistant to forest examiner.

DISTRICT 2.—John W. Spencer, Battlement, forest examiner to forest supervisor; Arthur F. C. Hoffman, San Juan, deputy forest supervisor to forest supervisor; Charles L. Cecil, Superior, forest ranger to deputy forest supervisor.

DISTRICT 3.—William R. Warner, Apache, Edward P. Ancona, Carson, William J. Anderson, Lincoln, forest rangers to deputy forest supervisors; Elliot S. Barker, Carson, O. Fred Arthur, Gila, deputy forest supervisors to forest supervisors; Frank T. Murphey, Carson, Marinus Westveld, Lincoln, forest rangers to forest examiners; Murrell W. Talbot, Hugh M. Bryan, and Paul H. Roberts, forest rangers to grazing examiners.

DISTRICT 4.—Clarence E. Favre, Humboldt, deputy forest supervisor to forest supervisor; Charles DeMoisy, jr., forest ranger, Ashley, to deputy forest supervisor, Humboldt; Thomas V. Pearson, Weiser,

forest ranger to deputy forest supervisor; Lawrence J. Palmer, Cache, Leon H. Weyl, Utah Experiment Station, grazing assistants to grazing examiners.

DISTRICT 6.—John C. Kuhns, Douglas C. Ingram, and Walter L. Dutton, forest rangers to grazing examiners.

DISTRICT 7.—C. A. Plymale, Arkansas, forest ranger to national forest examiner; John D. Lawrence, White Mountain, assistant forest ranger to forest ranger.

CHANGE IN DESIGNATION.

DISTRICT 1.—C. Lee Billings, deputy forest supervisor to forest examiner.

DISTRICT 2.—Wallace I. Hutchinson, forest supervisor to forest examiner; Allen W. Murdock, Arapaho, Charles Steuart, Montezuma, Clarence E. Taylor, San Isabel, Robert G. Schreck, Washakie, forest rangers to forest assistants.

DISTRICT 5.—James O. Morrow, Lassen, national forest examiner to forest supervisor.

RESIGNED.

DISTRICT 1.—H. J. A. Grossman, Jefferson, deputy forest supervisor; F. I. Rockwell, Coeur d'Alene, forest examiner; Jay B. Fletcher, Flathead, scaler; Thomas J. Carney, Beartooth, Arthur M. Keas, Beaverhead, John W. Long, Clearwater, Hugh F. Sheehy, Jefferson, Henry P. Gabel, Kaniksu, W. L. Gooch, Sioux, forest rangers; Raymond A. Fager, Beaverhead, forest clerk; Charlotte Harris, Gallatin, Vera L. Savage, Jefferson, Carol S. Garby, clerks (stenographers and typewriters); Fred R. Mason, lumberman.

DISTRICT 2.—Ann G. Harrington, clerk (stenographer and typewriter); Ralph G. McTavish, blueprinter; Julius W. Kroger, Routt, Andrew J. Loftus, San Isabel, Cecil P. Blake, Sopris, forest clerks; James N. Langworthy, Uncompahgre, forest supervisor; Harrison V. Bailey, White River, forest assistant; Richard H. Boerker, Fremont Experiment Station, forest examiner; Clarence H. Bowen, Durango, Frank A. Powell, Holy Cross, Lewis R. Rist, Montezuma, Benjamin I. Beaty and Harry O. Halleck, Sopris, William Stell, Uncompahgre, forest rangers.

DISTRICT 3.—Raymond W. Eddy, messenger boy; Laura F. Noble, clerk (typewriter); Charles F. Farmer, civil engineer; Guy B. Rencher, Apache, Owen L. Lovejoy, Gila, Edward L. Yott, Lincoln, Virgil D. Smith, Sitgreaves, Joseph M. Daly, Tusayan, Robert Stephenson, forest rangers; Frederick L. Meeker, Manzano, clerk.

DISTRICT 4.—Columbus I. Huddle, Lemhi, forest supervisor; Ruby C. Fields, Idaho, Mark K. Cherry, Lemhi, Samuel E. Sternberg, Salmon, James A. Cahill, Toiyabe, forest rangers; Herbert A. Spokesfield, Caribou, Hensley G. Harris, Targhee, forest clerks; Olivia Jensen, Fillmore, Ruth G. Wood, Humboldt, clerks (typewriters).

DISTRICT 5.—Iras Kobicke, Klamath, Frank A. Johnson, clerks (stenographers and typewriters); Joseph G. Shumate, draftsman; Roscoe Parkison, Lassen, forest ranger; William J. Rushing, Lassen, forest supervisor; Burnett Sanford, Sierra, forest assistant.

DISTRICT 6.—Hiram E. Newell, messenger; Arthur E. Kloe, Joe A. Brinkley, and Newton A. Wilcox, forest rangers; Frank P. Collins, John W. Siegel, and Charles J. Clifford, forest clerks; Wilmot W. G. Hastings and Homer Ross, forest supervisors.

DISTRICT 7.—William W. Day, Florida, forest ranger.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 2—

United States *v.* Charles Miller: Timber trespass, Holy Cross National Forest. Settled by payment of $71.43.

United States *v.* William Kyler: Fire trespass, Bighorn National Forest. Plea of guilty entered and fine of $50 imposed.

Law Cases in District 3—

United States *v.* Fred T. Christensen: Grazing trespass, Carson National Forest. Case closed on payment of $10, the value of the forage.

United States *v.* James A. Cosper: Grazing trespass, Apache National Forest. Case closed on payment of $3.75, the value of the forage.

United States *v.* William H. Collie; Occupancy trespass, Coronado National Forest. Costs of case paid and case dismissed, illegal fence having been removed.

United States *v.* Hampton, Patty & Montgomery: Grazing trespass, Apache National Forest. Case closed on payment of $281.25, the value of the forage.

United States *v.* Hooker & Kellogg: Grazing trespass, Apache National Forest. Case closed on payment of $62.50, the value of the forage.

United States *v.* Virgil F. Leonard: Grazing trespass, Apache National Forest. Case closed on payment of $12.50, the value of the forage.

United States *v.* Edgar Laney: Grazing trespass, Apache National Forest. Case closed on payment of $112.50, the value of the forage.

United States *v.* Vere Laney: Grazing trespass, Apache National Forest. Case closed on payment of $81.25, the value of the forage.

United States *v.* Will Laney: Grazing trespass, Apache National Forest. Case closed on payment of $73.75, the value of the forage.

United States *v.* Shellhorn & Bishop: Grazing trespass, Gila National Forest. Case closed on payment of $64.27, $14.27 actual and $50 punitive damages.

United States *v.* Hugh Trainor: Grazing trespass, Apache National Forest. Case closed on payment of $12.50, the value of the forage.

United States *v.* Juan I. Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of $2.28, the value of the forage.

Law Cases in District 4—

United States *v.* Ray Park Placer No. 3: Occupancy trespass, Humboldt National Forest, involving a mining location upon an administrative withdrawal. Aplication for patent withdrawn on showing made in Government's depositions.

United States *v.* Ray D. Anderson et al.: Trespass, criminal, Targhee National Forest. In the case of the United States *v.* Ray D. Anderson, W. T. Anderson, Fred Nelson, and William R. Gibson, charged with cutting hay without permit from lands in the Targhee National Forest, Ray D. Anderson was fined $25 without costs, W. T. Anderson and Fred Nelson were fined $50 each and costs, amounting to $112 each, and William R. Gibson was fined $25 and costs, amounting to $112; the case is closed.

United States *v.* Ray D. Anderson: Trespass, criminal, Targhee National Forest. Defendant was arraigned in United States court at Cheyenne July 10, and on plea of guilty was fined $25 and costs, amounting to $112. The defendant was also charged with making unlawful settlement in the Targhee National Forest, and on report from the forest supervisor that the settlement and occupancy were discontinued after the court proceeding, the case was closed.

United States *v.* Ludovic Isoard: Grazing trespass, Cache National Forest. The sum of $100 tendered in settlement; acceptance recommended by Secretary of Agriculture.

United States *v.* Thomas J. Jones (heir of Lamoni L. Jones): Occupancy trespass, Sevier National Forest. Proceedings dismissed pursuant to decision of Supreme Court in the case of Lane *v.* Hoglund.

United States *v.* Cecil H. Hopf: Occupancy trespass, Targhee National Forest. Proceedings dismissed pursuant to decision of Supreme Court in the case of Lane *v.* Hoglund.

United States *v.* L. A. Olsen: Grazing trespass, Manti National Forest. Case closed August 8, 1917, on payment of $73.30 damages ($23.30 actual and $50 punitive).

United States *v.* George A. Smith: Grazing trespass, Boise National Forest. Case closed on payment of $12.70 on September 6, 1917.

United States *v.* Etchecahar & Bidegain: Grazing trespass, Lembi National Forest. Case closed upon payment of $12 on September 6, 1917.

United States *v.* Mary Gower: Occupancy trespass, Sevier National Forest. Proceedings dismissed pursuant to decision of Supreme Court in the case of Lane *v.* Hoglund.

United States *v.* Thomas C. Walker: Occupancy trespass, Sevier National Forest. Proceedings dismissed pursuant to decision of Supreme Court in the case of Lane *v.* Hoglund.

Law Cases in District 5—

United States *v.* Barne Co.: Fire trespass, Mono National Forest. Case closed upon payment of $57, representing damage to timber and cost of extinguishing the fire.

United States *v.* C. A. Hufford: Grazing trespass, Lassen National Forest. Case closed upon payment of $93.60. the value of the forage.

United States *v.* R. M. Pardue: Trespass, Modoc National Forest. Case closed upon payment of $15, the value of hay cut in trespass.

United States *v.* Silas Kreigh: Trespass, Modoc National Forest. Case closed upon payment of $16, value of hay cut in trespass.

United States *v.* D. Sharples: Fire trespass, Angeles National Forest. Case closed upon payment of $31.38, actual damages.

United States *v.* Adams & West: Fire trespass, Santa Barbara National Forest. Nine dollars and fifty cents actual damages paid; case closed.

United States *v.* Standard Lumber Co.: Timber trespass, Stanislaus National Forest. Case closed upon payment of $105.80 damages.

United States *v.* Peckinpah Lumber Co.: Timber trespass, Sierra National Forest. Case closed upon payment of $205.13 damages.

Law Cases in District 6—

United States *v.* P. J. McHugh and P. J. McHugh Paving & Construction Co.: Fire trespass, civil, Snoqualmie National Forest. The trial in this case was held at Seattle, Wash., September 20, 21, 25, and 26, to recover damages to timber reproduction in the sum of $682, and the cost of fighting the fire, amounting to $1,096. Jury returned a verdict of $1 and costs against the P. J. McHugh Paving & Construction Co. The costs amount to approximately $600. Motion for new trial will be made.

United States *v.* Jake S. McCown: Grazing trespass, criminal, Oregon National Forest. Defendant was indicted July 2 and information filed against him July 13. On September 15 he plead guilty to both indictment and information and was fined $750, and temporary injunction secured August 17 was made permanent.

United States *v.* Southern Pacific Railway Co.: Fire trespass, civil, Santiam National Forest. On August 29 the defendant made payment in full, $379.40, for damage resulting from a fire set by the employees of the defendant company.

State of Washington *v.* W. H. Crawford: Fire trespass, Colville National Forest. Defendant was arrested under warrant secured under State law by supervisor of Colville National Forest for setting fire during closed season on his claim within the National Forest, and on September 21, 1917, was found guilty and fined $25 and costs amounting to $47. On account of failure to pay fine, defendant is serving 25 days in Okanogan county jail.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 556.—Mechanical Properties of Woods Grown in the United States.

Unnumbered Publication.—Rules and Regulations Permitting Prospecting, Development, and Utilization of the Mineral Resources of Lands Acquired Under the Act of March 1, 1911.

Unnumbered Publication.—First Aid to the Injured.

Office of the Secretary, Report 117.—The Substitution of Other Materials for Wood.

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[October, 1917.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917

PROPERTY OF U.S. DIVISION OF FORESTRY

No. 12. Issued January 15, 1918.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1918.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

WILLIAM L. HALL, assistant forester, in charge of cooperation with War Department.

HERBERT A. SMITH, editor; JOHN L. COBBS, Jr., in charge of information.

FINDLEY BURNS, in charge of technical review.

Educational cooperation, DON CARLOS ELLIS.

Proofs and forms, CLAUDE M. BALLARD.

GEORGE B. SUDWORTH, dendrologist.

ACCOUNTS.

M. E. FAGAN, chief.

35169—18——1

OPERATION.

D. D. BRONSON and A. O. WAHA, forest inspectors; GEORGE G. ANDERSON, inspector of records.

MAINTENANCE.—BILLIE I. SHANNON, acting chief.

SUPPLIES.—S. L. MCLAURIN, property clerk.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant; H. A. BEAUVERD, clerk.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor; W. E. THOMPSON, clerk.

SILVICULTURE.

E. E. CARTER, forest inspector, in charge; CLINTON G. SMITH, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; J. H. Foster, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, acting in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornado Reserve: Clarence L. Forsling grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

W. N. SPARHAWK, forest examiner, fire studies.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. D. Sterrett, G. N. Lamb, E. R. Hodson; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relation Service); G. E. Clement and Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry kiln specialist.

Commercial extension.—Rolf Thelen (on detail, Washington office).

Review of results.—Frank J. Hallauer, Ray C. Tuttle.

Lumber studies.—Henry V. Hegel, in charge; D. G. White.

DERIVED PRODUCTS.—Ernest Bateman, L. F. Hawley, Samuel A. Mahood, Howard N. Calderwood, Roland E. Kremers, E. C. Sherrard, P. H. Segnitz, H. M. Mayo.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—OTTO KRESS, in charge; H. E. Surface, G. C. McNaughton, Sidney D. Wells, Chas. R. Cressey, V. P. Edwards.

TIMBER PHYSICS.— ————, in charge; C. A. Kupfer, Eloise Gerry, M. E. Diemer, James E. Imrie, A. Koehler, Gertrude Griffin, Milton H. Hostman, C. W. Gould, M. I. Mueller, James D. Studley, R. L. Nelson, A. B. Cooke, M. C. Jensen.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, Leslie R. Morris, Armin Elmendorf, Cecil V. Maudlin, Charles B. Norris, Walter R. Webb, Walter C. Mackey, J. S. Mathewson, E. R. Maurer, D. W. Quinn, L. J. Engelke, P. W. Codwise, J. R. Watkins, A. C. Knauss.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt, P. R. Hicks, Matthew E. Dunlap, S. B. Henning.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; C. Audrey Richards.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge.

Studies.—J. T. Harris.

USES OF WOODS.—W. D. Brush.

LUMBER GRADES.—J. C. Nellis.

WOOD-WASTE EXCHANGE.—R. K. Helphenstine, jr.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, A. H. Pierson.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumbermen's examinations: E. D. Fletcher, Gorham, N. H.; C. D. Cushing, Johnson City, Tenn.; George W. Marshall, Clayton, Ga. Forest Examiners: White Mountains, H. S. Davis and S. H. Thompson, Gorham, N. H.; Natural Bridge Area, H. M. Sears

and party, Buena Vista, Va.; Massanutten and Potomac Areas, E. D. Clark and party, Woodstock, Va.; Georgia Area, L. H. Steffens, Blue Ridge, Ga.; Boone and Mount Mitchell Areas, R. J. Noyes and party, Marion, N. C.; Savannah Area, C. E. Beaumont (in charge of party), Clayton, Ga.; Nantahala Area, W. J. Damtoft (in charge of part) and George F. Greenleaf, Asheville, N. C.; Alabama Area, W. R. Barbour (in charge of party), Haleyville, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, national forest examiner, Washington, D. C. Examiners of surveys: White Mountain Area, Carl F. Muzzey, Frederick A. Gardner, and J. W. Fox, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Savannah Area, W. N. Sloan, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Nantahala Area, James Denman, Asheville, N. C.; Pisgah Area, Walter H. Sullivan, Asheville, N. C.; Natural Bridge Area, Beverley M. Higginbotham, Buena Vista, Va.; Monongahela Area, Alfred R. Kinney, Elkins, W. Va.

LAW.—A. H. MCCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Biltmore, N. C.; John W. Van Hoy, Marion, N. C.; John Awtrey, Clayton, Ga.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

MAINTENANCE.—KNOX MCANALLY.

SILVICULTURE.—J. F. PRESTON, assistant district forester; C. L. BILLINGS, forest examiner.

LOGGING ENGINEERING.—J. W. GIRARD, logging engineer.

TIMBER SALES.—H. L. BAKER, administrative assistant; field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge; W. M. NAGEL, assistant. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—L. C. HURTT and LEON H. WEYL, grazing examiners.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.— ———.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.—J. B. YULE.

Drafting.—K. D. SWAN.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATIONS.

Priest River, Kaniksu National Forest.— ——— Priest River, Idaho; Julius A. Larsen, forest examiner.

NATIONAL FORESTS.

IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); C. A. Dahlgren, lumberman; R. G. Merritt and James H. Hull, forest examiners.

Kaniksu.—See Washington.

Nezperce.—CHARLES K. MCHARG, Jr., forest supervisor, Grangeville (WU–Am); F. J. Jefferson, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, N. W).

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF); A. O. Benson, forest examiner.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); W. J. Derrick, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU–Am); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor Missoula (WU–Am N); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); C. B. Baker, forest examiner; R. L. Woesner, lumberman.

Cabinet.—CARL M. STEVENS, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—GEORGE E. MARTIN, forest supervisor, Miles City (WU–Am, N).

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); R. A. Hamilton, deputy forest supervisor; C. N. Whitney, C. R. Clark, and W. C. Latane, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU–Am, GN); S. St. J. Malven, deputy forest supervisor; H. R. Flint, forest examiner, timber sales.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—J. B. SEELY, forest supervisor, Helena (WU–Am, N).

Jefferson.—SCOTT LEAVITT, forest supervisor, Great Falls (WU–Am, N); Lewis T. Morgan, deputy forest supervisor.

Kootenai.—GLEN A. SMITH, forest supervisor, Libby (WU–Am, GN); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Chouteau (WU–Am, GN); O. C. Bradeen, deputy forest supervisor.

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P–Am, N).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N); Burr W. Clark, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

SOUTH DAKOTA.

Sioux.—J. C. WHITMAN, forest supervisor, Camp Crook (WU via Bellefourche–WF via Marmarth, N. Dak.).

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN, via Priest River); A. J. Feary, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHINSON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forester examiner in charge; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; HAROLD L. BORDEN, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs, (WU–Ad).

Battlement.—JOHN W. SPENCER, forest supervisor, Collbran (WU–Ad).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–WF); Wm. O. Sauder, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–Ad, Am).

Durango.—H. Earl French, forest supervisor, Durango (WU–Ad); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—William R. Kreutzer, forest supervisor, Gunnison (WU–Ad); Percy T. Smith, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—Harry H. French, forest supervisor, Glenwood Springs (WU–WF); Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

Leadville.—R. E. Clark, forest supervisor, Leadville (WU, P–WF, Ad).

Montezuma.—Gordon Parker, forest supervisor, Mancos (WU–Ad).

Pike.—Theo. Shoemaker, forest supervisor, Denver (WU, P–Ad, Am, WF); Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. Sweitzer, forest supervisor, Monte Vista (WU–Ad); Walter F. Bowers, deputy forest supervisor.

Routt.—Arthur M. Cook, forest supervisor, Steamboat Springs (WU–Ad); Ray Peck, deputy forest supervisor.

San Isabel.—Albin G. Hamel, forest supervisor, Westcliffe (WU–Ad).

San Juan.—A. F. C. Hoffman, forest supervisor, Pagosa Springs (WU–Ad).

Sopris.—Arthur T. Upson, forest supervisor, Aspen (WU–WF); Thos. V. Keefe, deputy forest supervisor.

Uncompahgre.—J. W. Lowell, Jr., forest supervisor, Delta (WU–Ad); Crosby A. Hoar, deputy forest supervisor.

White River.—James A. Blair, forest supervisor, Glenwood Springs (WU–WF); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—Huber C. Hilton, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. Marshall, forest supervisor, Cass Lake (WU–Am, WF, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—Leslie Brownell, forest supervisor, Ely (WU–GN); Chas. L. Cecil, deputy forest supervisor.

NEBRASKA.

Nebraska.—Jay Higgins, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil. Bessey Nursery, Halsey.

SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; L. E. Hitchcock, forest examiner; Earl W. Tinker, forest examiner.

Harney.—GEORGE A. DUTHIE, forest supervisor, Custer (WU–Ad); James F. Conner, deputy forest supervisor; R. A. Phillips, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor; J. E. Martin, forest examiner.

Black Hills.—See South Dakota.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P–Am); Chas. F. Bliss, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, acting district forester; ALDO LEOPOLD, forest examiner, information, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). MORTON M. CHENEY, acting assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; WARD SHEPARD, forest examiner, assistant in operation; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, MURRELL W. TALBOTT, HUGH M. BRYAN, and PAUL H. ROBERTS, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners. Entry surveys: R. P. A. JOHNSON, surveyor.

ENGINEERING.— ———.

ROADS.—C. A. LONG, acting.

WATER POWER.—C. A. LONG, acting.

MAPS AND SURVEYS.—LEE C. DAVES, acting.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P–WF); John A. Adams, deputy forest supervisor.

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P–WF); Robert J. Selkirk, deputy forest supervisor.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU–WF); H. Basil Wales, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams (WU, P–WF).

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (P–WF).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU–G); Edward P. Ancona, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); Robert Munro, deputy forest supervisor.

Gila.—O. F. ARTHUR, forest supervisor, Silver City (WU, P–WF); James A. Scott, deputy forest supervisor. Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—CHARLES H. JENNINGS, forest supervisor, Alamogordo (WU–WF); William J. Anderson, deputy forest supervisor; J. Wilbur O'Byrne and Marinus Westveld, forest examiners.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P–G, WF); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; C. E. RUSSELL, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—JAMES M. FETHEROLF, in charge; E. H. HALL, assistant. Pocatello Nursery: L. F. Watts, forest examiner, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery: N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest). Beaver Creek Nursery: A. E. Oman, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, R. J. BECRAFT, and L. J. PALMER, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of land classification; R. D. GARVER, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge; F. S. Baker, forest examiner, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am).

Cache.—See Utah.

Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU–Am); G. G. Henderson, deputy forest supervisor; T. B. Nichols, grazing studies.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU–P); J. C. Roak, deputy forest supervisor.

Lemhi.—VERNON METCALF, forest supervisor, Mackay (WU–Am); C. E. Evans, forest examiner.

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU–Am); J. W. Stokes, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.

Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. C. Scribner, deputy forest supervisor.

Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU–Am); Leslie E. Dodge, deputy forest supervisor.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU–Am); John N. Kinney, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor Weiser (WU–Am); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humbolt.—CLARENCE E. FAVRE, forest supervisor, Elko (WU–WF); Chas. DeMoisy, deputy forest supervisor.

Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—E. C. SHEPARD, forest supervisor, Logan, (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor.
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); Louis B. Koch, scaler, in charge of Standard Timber Co. sale; Jno. E. Ingram, forest examiner.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); Nils B. Eckbo, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

ROY HEADLEY, acting district forester.

INFORMATION.—L. H. WHITEMAN, in charge.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—CLARENCE WILEY, national forest inspector, in charge.

FIRE PROTECTION.— ———.

IMPROVEMENTS.— ———.

TELEPHONE ENGINEERING.—FREDERICK H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

FOREST INVESTIGATIONS.—EDWARD N. MUNNS, forest examiner, Los Angeles, Cal. (care Forest Service); STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; R. A. STUDHALTER, assistant pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

WATER POWER.—F. H. FOWLER.

MAPS AND SURVEYS.—J. C. DORT.

Drafting.—R. E. L. BORGFELDT.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (P–WF).

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF).

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr, forest examiner.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU–WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P–WF); E. B. Long, lumberman; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor Northfork (WU via Friant–WF via Friant); J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYERS, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor; M. R. Tillotson, deputy forest supervisor, timber sales.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernst V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; BRUCE E. HOFFMANN, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

BOUNDARIES AND USES.—C. J. BUCK.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—W. M. H. WOODWARD and GEO. W. ROOT.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor, Seattle; WM. RYLE TEED, national forest examiner, State House, Olympia, Wash.

ENGINEERING.— ———.
MAPS AND SURVEYS.—A. H. HODGSON, in charge.
Drafting.—R. H. ROBERTSON.
Surveys.—CECIL A. LORD.
WATER POWER.—R. R. RANDELL, acting.
PRODUCTS.— ———.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); B. F. Heintzleman, deputy forest supervisor; R. S. Wallace, forest examiner.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P–WF); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton and John C. Kuhns, grazing examiners.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU–Am).

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T–Am); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley, deputy forest supervisor; Carl B. Neal and W. B. Osborne, forest examiners.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF); A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am); F. V. Horton, grazing examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU–Am); I. E. Jones, deputy forest supervisor; O. F. Ericson and T. J. Starker, forest examiners; Walker L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P–Am; WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); L. E. McDaniels, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P–Am, N); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN); Robert Craig, jr., deputy forest supervisor.

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

OPERATION.—H. O. STABLER, assistant district forester.

SILVICULTURE.—F. W. REED, assistant district forester.

GRAZING.—C. L. SMITH, national forest examiner.

LANDS.—F. W. REED, assistant district forester; W. F. HILL, land classification.

ENGINEERING.—H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P–WF, P).
Ozark.—C. J. HELLER, forest supervisor, Harrison (WU–WF).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola, Fla. (WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

PURCHASE AREAS.

Alabama.—W. R. BARBOUR, forest examiner, in charge, Moulton, Ala.
Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P–Ad).
Monogahela.—H. L. JOHNSON, deputy forest supervisor, Elkins, W. Va. (WU, P–Ad).
Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).
Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P–So).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg, Va. (WU, P–Ad, so).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, deputy forest supervisor, Abingdon, Va. (WU, P–So).

White Mountain.—J. J. FRITZ, forest supervisor, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

WASHINGTON OFFICE.—Seth C. Brady, messenger boy; Robert C. Brown, Acquisition, assistant forest ranger.

DISTRICT 1.—Walter R. Johns, forest ranger; William Vincent Evans, forest ranger, Absaroka; John S. Bowen, forest ranger, Beartooth; Henry Wold, forest clerk, Cabinet; Jacob Roeser, jr., forest assistant, Coeur d'Alene; Eugene R. McGlaughlin, forest assistant, Deerlodge; James H. Bosworth, forest ranger, Flathead; Ray L. Greathouse, forest ranger, Jefferson; Sylver J. White, forest ranger, Lewis and Clark; William W. Bennett, deputy forest supervisor, Lolo; William A. Schowe, forest ranger, Madison; Samuel Cook, forest ranger, Missoula; Thomas E. Norton, forest ranger, Sioux; John C. De Camp, forest ranger, Lands, district office; Harry N. Knowlton, assistant engineer in forest products, Products, district office; F. J. Cool, topographic draftsman, district office; S. T. Simons, draftsman, engineering, district office.

DISTRICT 2.—John E. Krause, forest ranger, Hayden; J. Ward Emerson, forest ranger, Montezuma; Karl L. Janouch, forest ranger, Nebraska; Joseph A. Sweeney, forest ranger, Nebraska; Jesse C. Russell, forest ranger, San Isabel; Oscar Leo Nelson, forest ranger, Shoshone.

DISTRICT 3.—Frank T. Murphey, forest examiner, Carson; Hugh O. Cassidy, forest ranger, Gila; George Mutz, forest ranger, Lincoln; Louis Henry Waters, forest ranger, Manzano; Frank D. Harris, forest ranger, Santa Fe; John V. Nevitt, forest ranger, Santa Fe; Joseph R. Calloway, forest ranger, Tonto; William Hackett, forest ranger, Tonto; Serrin S. Van Boskirk, forest ranger, Fort Valley Experiment Station.

DISTRICT 4.—William H. Drennon, draftsman, district office; Harold A. Chadderdon, forest ranger, Boise; Albert R. Griffith, forest ranger, Boise; Talmage D. Cowan, forest ranger, Targhee; Arthur G. Nord, forest ranger, Targhee.

DISTRICT 5.—Clarence W. Griggs, clerk (stenographer and typewriter), California; Archer E. Roberts, forest ranger, Cleveland; Albert W. Blair, forest ranger, Eldorado.

DISTRICT 6.—Willett F. Ramsdell, deputy forest supervisor; Lawrence B. Pagter, forest examiner; Frank B. Myers, forest assistant; Karl G. Meschke, forest assistant; N. Leroy Carey, forest assistant; Robert A. Zeller, forest assistant; Benjamin A. Eddy, forest ranger; Jules L. Hagon, forest ranger; Lee F. Chartrand, forest ranger; Rolland Huff, forest ranger.

APPOINTED.

LABORATORY.—Philip W. Codwise, Cecil V. Maudlin, Moritz L. Mueller, assistant engineers in forest products; Samuel A. Mahood, Earle C. Sherrard, chemists in forest products; Harold M. Mayo, assistant chemist in forest products; Eugene P. Connor, Arthur T. Jones, Benjamin J. Keyes, Kenneth E. Skidmore, Ben C. Switzky, Arthur B. White, laboratory helpers.

DISTRICT 1.—Francis L. Mackey, Pend Oreille, forest ranger; Harold L. Redlingshafer, Beaverhead, forest clerk; Miles L. Marsh, Absaroka, Mrs. Marie H. R. Clauson, St. Joe, Mrs. Ruby M. Brome, clerks (stenographers and typewriters); Fred W. Bussey, messenger boy.

DISTRICT 2.—Frieda M. Gruenstein, Black Hills; Ruth Phillips, Harney; M. Linda King, Leadville; Marie A. Bennett, Medicine Bow; Lillie M. Grubb, Rio Grande; Eva J. Crossman, Shoshone, clerks (stenographers and typewriters); Edward Wm. Johnson, San Isabel; R. Calvin Miller, Uncompahgre, forest rangers; Marguerite K. Schoder, clerk (stenographer and typewriter).

DISTRICT 3.—Anita Pearle Kellogg, Lincoln, clerk (stenographer and typewriter); Harry J. Atwell, Coconino (transferred from Indian Service), clerk; Audrey Bates, Datil; Lella LeMaster, Santa Fe; Mrs. Margaret Hiscox, Tonto, clerks (typewriters); Andrew J. Loftus, Tusayan, forest clerk; Cecil R. Heighes, messenger boy; Blanche I. Porterfield, clerk (stenographer and typewriter).

DISTRICT 4.—Alice H. Venable, Boise; Mary D. Beach, Cache; Vivian M. Gwin, Powell, clerks (stenographers and typewriters); Arthur L. Smith, Lemhi, forest ranger; Theresa B. Harris, Targhee, clerk (typewriter); Doris E. Chase, Ruth J. Mosteller, clerks (stenographers and typewriters).

DISTRICT 5.—Vivian L. Abercrombie, California; Florence G. Chamberlain, Stanislaus; Grace C. Farrell, Plumas, clerks (stenographers and typewriters); Kenneth L. Hosack, messenger boy.

DISTRICT 6.—Claude R. Altman, George E. Griffith, forest clerks; Luella M. Thompson, Alice E. Ure, clerks (stenographers and typewriters); John F. Campbell, forest ranger; George H. Sullivan, gas engineer; Oliver A. Barr, messenger boy.

PROMOTED IN RANK.

LABORATORY.—Harry D. Tiemann, from engineer in Forest Products to physicist and expert in kiln drying.

DISTRICT 1.—G. I. Porter, clerk to national forest inspector.

DISTRICT 2.—Earl W. Tinker, Black Hills, forest assistant to forest examiner; Thomas V. Keefe, Sopris, forest assistant to deputy forest supervisor; Crosby A. Hoar, Uncompahgre, forest examiner to deputy forest supervisor.

DISTRICT 4.—Walter G. Mann, Idaho; Samuel W. Stoddard, Salmon, deputy forest supervisors to forest supervisors; Sidney C. Scribner, Salmon, lumberman to deputy forest supervisor; Leslie E. Dodge, Sawtooth, forest ranger to deputy forest supervisor; John N. Kinney, Targhee, forest clerk to deputy forest supervisor; Lewis B. Koch, Wasatch, forest ranger to scaler; Chester B. Morse, forest supervisor, Targhee, to assistant district forester, district office.

DISTRICT 5.—Chester E. Jordan, Inyo, deputy forest supervisor to forest supervisor.

DISTRICT 6.—Norman G. Jacobson, forest examiner to forest supervisor; Vernon V. Harpham, deputy forest supervisor to forest supervisor; Harvey E. Vincent, forest ranger to deputy forest supervisor; Raymond H. Chapler, forest assistant to forest examiner; Grover C. Simmons, George Donaldson, Claude W. Waterbury, forest rangers to scalers.

DISTRICT 7.—Seward H. Marsh, Shenandoah; Charles J. Heller, Ozark; Loren L. Bishop, Florida, forest examiners to forest supervisors; Harold L. Russell, White Top, forest examiner to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—Earl V. Storm, Jefferson, grazing assistant to forest ranger; A. J. Feary, lumberman to deputy forest supervisor; P. C. Kitchin, Kaniksu; Courtland S. Winn, jr., Sioux, forest assistants to forest rangers.

DISTRICT 2.—Charles Steuart, Montezuma; Clarence E. Taylor, San Isabel; Robert G. Schreck, Washakie, forest assistants to forest rangers.

DISTRICT 4.—Arthur McGregor, Boise, forest clerk to forest ranger; Sidney S. Stewart, deputy forest supervisor to forest examiner.

DISTRICT 6.—Charles H. Woodcock, logging engineer to scaler.

RESIGNED.

ACQUISITION.—Edward Brailove, forest assistant; Rodney D. Brown, transitman.

LABORATORY.—George L. Schwarts, Sidney Lunak, assistant chemists in Forest Products; Andrew K. Armstrong, engineer in Forest Products.

DISTRICT 1.—Carl H. Siria, Beaverhead; Arnold H. Lynn, Cabinet; Richard N. Bradley and Baigrie Sutherland, Flathead; Richard N. Moses, Nezperce; J. R. Winnington, Pend Oreille, forest rangers; Elva T. Crane, Kaniksu; Mrs. Edith C. Beale, Nezperce, clerks (stenographers and typewriters); C. D. Jones, St. Joe, forest clerk; Ferdinand A. Silcox, district forester; Donald R. Brewster and Ernest C. Rogers, forest examiners.

DISTRICT 2.—Harry C. Langston and John G. Brooks, Arapaho; Sheldon C. Barnum, Black Hills; Austin P. Russell, Bridger; Paul F. Barker, Colorado; Alfred L. Strawn and George Fleischman, Rio Grande; Leslie Alexander, San Isabel; Thomas E. Jacques and Henry L. Spencer, Uncompahgre, forest rangers; Thomas B. Haines, Hayden; Joseph G. McLeod, Montezuma; Ray W. Smith, San Juan; Daniel J. McNamara, Shoshone, forest clerks; Ruth H. Lockwood, Harney; Maude A. Thompson, Rio Grande; Regina T. Bermine, clerks (stenographers and typewriters).

DISTRICT 3.—Paul G. Redington, district forester; John P. Farnan, Mrs. Clara E. Hennrich, Rita Mathison, Rose M. Harsch, Evelyn R. Price, Lincoln, clerks (stenographers and typewriters); Leo F. Wolcott, Coconino; Ross Earl Fortney, Tusayan, forest clerks; Francis P. Porcher, Crook; Charles G. Baecht, Tusayan; Thomas B. Ruth, Prescott, forest rangers; Robert R. Moak, Manzano, scaler.

DISTRICT 4.—Arthur McGregor, Boise; James H. DeLong, Fillmore; John P. Brockbank, Manti; Parley Christiansen, Manti; Henry B. Webber, Salmon; Joseph Barnett, Uinta, forest rangers; Lawrence J. Phelan, Idaho, forest supervisor; Lawrence E. Horne, Caribou; Mrs. Lavina R. Barlow, clerks (stenographers and typewriters); George W. Goshen, clerk (typewriter); John A. Wheeler, jr., messenger boy; Edna B. Malan, draftsman.

DISTRICT 5.—Henry C. Smith, California; George L. Jeffrey, Plumas, clerks (stenographers and typewriters); Reese W. Taylor, Plumas; Louis T. Larsen, Tahoe, forest examiners; Alexander H. Hogue, Inyo, forest supervisor; Harvey R. Cheesman, Angeles; Charles W. Lee, Lassen, forest rangers; Lewis H. Bach, Stanislaus, forest clerk; Frederick H. Smith, national forest examiner; Vera M. Marston, Edward Vill, clerks (stenographers and typewriters).

DISTRICT 6.—Arthur F. Kerr, forest examiner; Charles W. Long, Joseph I. Steel, forest clerks; Grace M. Lee, clerk (stenographer and typewriter); Cornelius Barry, laboratory assistant; John H. Blinn, Charles A. Ross, forest rangers.

DISTRICT 7.—Ernest J. Mead and Seth E. Hopewell, Arkansas, deputy forest supervisors; John A. Shifflette, Shenandoah, forest ranger.

SUSPENDED.

DISTRICT 4.—Glidden J. Barstow, Wyoming, forest ranger.
DISTRICT 6.—Edward H. Mahn, forest ranger.

DISMISSED.

DISTRICT 5.—James W. Conway, clerk (bookkeeper).

With deep regret announcement is made of the death of Roy L. Walkup, forest ranger, California, October 20; and Scott McComb, forest ranger, Fremont, district 6.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1917, which will be issued probably in April, 1918, is allotted to the Forest Service for its members. Copies will be supplied as in former years to district foresters and supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

GRAZING.

Grazing Preferences Must Not Be Sold.

The Secretary of Agriculture has issued a circular under date of January 2, 1918, notifying all permittees that the sale or transfer of grazing privileges for a consideration is contrary to the regulations and warning them that the payment of any bonus or the giving of any consideration to a permittee for the purpose of securing the filing of a waiver of the grazing privilege upon the National Forests is prohibited and will be sufficient cause for the revocation of permit or forfeiture of all grazing preferences based upon the purchase of permitted stock.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Chicago, Milwaukee & St. Paul Railway Co.; Special use permit, Coeur d'Alene National Forest. October 13, 1917, the railway company deposited to the credit of the United States the sum of $89,264, of which $68,489 was for damages and $20,775 interest.

United States *v.* William Forster: Slacker. Case reported by Forest Service. October 3, 1917, Forster sentenced to three months in jail.

United States *v.* George Gleed Estate: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $152.88, value of forage consumed.

United States *v.* Lane Lumber Co.: Timber trespass, civil, Coeur d'Alene National Forest. Proceedings in bankrupty; amount involved,

$300. Upon report of referee in bankruptcy that funds were insufficient to reach the claim of the United States, the case was closed.

United States *v.* T. A. Lawrence: Embezzlement, Pend Oreille National Forest. Indictment dismissed by United States attorney upon recommendation of Forest Service.

United States *v.* Baltzar Termstrom and Harry Lucas: Conspiracy to defraud the United States, Lolo National Forest. Case tried at Butte before the Federal court November 10. Conspiracy charge dismissed, with instructions to remand Termstrom to custody of marshal. Thereafter Termstrom given hearing before United States commissioner and bound over to grand jury under bond of $200.

United States *v.* Albert P. Wicks: Fire trespass, criminal, Madison National Forest. Information dismissed by United States attorney upon recommendation of Forest Service.

Law Cases in District 2—

United States *v.* I. N. Pepper: Breach of timber sale contract, Uncompahgre National Forest. Execution issued and judgment collected in the sum of $42.06 damages and $59.30 costs, total $101.36.

United States *v.* Antone Usel: Grazing trespass, Sopris National Forest. Case closed on payment of $15.75, the value of the forage.

United States *v.* Denis Henault: Occupancy trespass, Harney National Forest. Decree in favor of United States enjoining defendant from continuing to occupy and use National Forest lands withdrawn for ranger station site.

United States *v.* Hugh Clark: Occupancy trespass, Routt National Forest. Case closed on payment of $6.25, rental value of land on account of previous occupancy.

United States *v.* Arameta Gammil and M. A. Gammil: Condemnation proceedings, Nebraska National Forest. Bill filed to secure through condemnation proceedings 15.37 acres of land needed in connection with the Bessey Nursery, Nebraska National Forest.

Law Cases in District 3—

United States *v.* C. C. Ritter: Grazing trespass, Tusayan National Forest. Case closed on payment of $2.75, the value of the forage.

United States *v.* H. Z. Belue: Timber trespass, Coronado National Forest. Case closed on payment of $12.80 damages.

United States *v.* Fritz Estate: Grazing trespass, Apache National Forest. Case closed on payment of $457.50, the value of the forage.

United States *v.* Fred A. Stacy: Grazing trespass, Apache National Forest. Case closed on payment of $132.50, the value of the forage.

United States *v.* J. W. Van Winkle: Grazing trespass, Alamo National Forest. Judgment for $29.80, value of the forage, and case closed on payment of judgment with $102.45, costs and interest.

United States *v.* C. L. Posey: Property trespass, Lincoln National Forest. Plea of guilty on information charging him with violation of Regulation T–6 (B) in burning an abandoned cabin on a ranger station. Case closed on payment of $40 fine and costs of $30.75.

United States *v.* King Bros.: Grazing trespass, Tusayan National Forest. Case closed on payment of $33, the value of the forage.

Ralph H. Cameron *v.* W. W. Bass: Suit by claimant of cancelled mining claim to enjoin special use permittee from occupying a portion of the area formerly embraced in the location. November 8, 1917, the Supreme Court of Arizona affirmed judgment of the superior court, Coconino County, dismissing complaint. Now pending on motion for rehearing.

State of Arizona *v.* J. H. Silvester: Criminal prosecution for libel of a forest officer. Defendant waived preliminary hearing and bound over to superior court on bond of $500. Continued to April term.

State of New Mexico *v.* A. W. Snyder: Fire trespass, Lincoln National Forest. Criminal prosecution for arson in setting fire to boarding houses on National Forest lands. Preliminary hearing and defendant bound over to superior court on bond of $1,500.

United States *v.* D. H. Lucas: Grazing trespass, Lincoln National Forest. Defendant indicted and case dismissed by agreement on payment of costs of $27.67.

United States *v.* Fred Lucas: Grazing trespass, Lincoln National Forest. Plea of guilty and case closed on payment of fine of $50 and costs of $37.67.

United States *v.* W. C. Bell: Grazing trespass, Apache National Forest. Case closed on payment of $45, the value of the forage.

United States *v.* D. H. Lucas & Sons: Grazing trespass, Lincoln National Forest. Case closed on payment of $225, the value of the forage.

United States *v.* Belarmino Alire: Timber trespass, Carson National Forest. Plea of guilty and case closed on payment of fine of $15 and costs of $71.20.

United States *v.* Jack Brenner: Grazing trespass, Carson National Forest. Plea of guilty and case closed on payment of fine of $50 and costs of $30.95.

United States *v.* Gatlin & Stevenson Bros.: Grazing trespass, Apache National Forest. Case closed on payment of $682.75, the value of the forage.

United States *v.* Procopio Pacheco: Grazing trespass, Lincoln National Forest. Case closed on payment of $37.50, actual and punitive damages.

United States *v.* Babbitt & Charlebois: Grazing trespass, Tusayan National Forest. Case closed on payment of $15, the value of the forage.

United States *v.* Juan Antonio Garcia: Grazing trespass, Manzano National Forest. Case closed on payment of $19.50, the value of the forage.

United States *v.* Mrs. Martha B. Ament: Grazing trespass, Gila National Forest. Case closed on payment of $10, the value of the forage.

United States *v.* Torbio Archuleta: Grazing trespass, Manzano National Forest. Case closed on payment of $3.90, the value of the forage.

United States *v.* Lin Branum: Grazing trespass, Lincoln National Forest. Case closed on payment of $547.04, actual and punitive damages.

United States *v.* D. Kuykendall: Grazing trespass, Tonto National Forest. Judgment by default, and case closed on payment of $35.94, value of the forage, and $4.70 costs.

United States *v.* B. A. & N. J. Cameron: Occupancy trespass, Tusayan National Forest (Grand Canyon). Case closed on payment of fines, $5 each, without costs.

Law Cases in District 4—

United States *v.* Frank Gartiez & Co.: Grazing trespass, Santa Rosa National Forest. Tried November 5 and 6, 1917, in United States District Court at Carson City, Nev. The jury returned a verdict for $5.94 actual and $100 punitive damages.

United States *v.* Thomas Tobin: Fire trespass, Salmon National Forest. Defendant was charged with burning a haystack and attempting to burn a barn on the Tendoy Ranger Station. The jury in the United States District Court at Pocatello, Idaho, on October 11 returned a verdict of not guilty.

United States *v.* William Smith: Grazing trespass, Fillmore National Forest. Amount of damages revised to $37.25. Paid.

United States *v.* Louis Kunz and Louis Eschler: Grazing trespass, Caribou National Forest. Case closed on payment of $12.25, the value of the forage.

United States *v.* John Skillern: Grazing trespass, Boise National Forest. Case closed on payment of $48, the value of the forage.

United States *v.* O. M. Doubleday: Grazing trespass, Weiser National Forest. Case closed on payment of $158.70, the value of the forage.

United States *v.* George Calvert: Grazing trespass, Ashley National Forest. Case closed on payment of $81.84, the value of the forage.

United States *v.* William Jones et al.: Grazing trespass, Minidoka National Forest. Case closed on payment of $909.04 ($875.69 actual damages and $33.35 costs).

United States *v.* W. C. Preston: Grazing trespass, Wasatch National Forest. The district attorney has reported the final payment on November 2, 1917, of the balance due on a judgment heretofore rendered against him. The total payment made, including judgment and

costs, is $448.38. Of this $415 had been previously reported as paid. Closed.

Law Cases in District 5—

United States *v.* W. J. Davis et al.: Fire trespass, California National Forest. Indictment returned by grand jury at Sacramento, Cal., November 12, 1917.

United States *v.* Ernest Bucknell: Property trespass, larceny, California National Forest. Indictment returned by grand jury at Sacramento, Cal., December 19, 1917.

United States *v.* Perry McDaniels: Grazing trespass, Modoc National Forest. Indictment returned by grand jury at Sacramento, Cal., December 19, 1917.

United States *v.* Kern River Co.: Occupancy trespass, Sequoia National Forest. Argument completed October 1 and 2, 1917, and amended bill in equity filed.

United States *v.* R. E. Danaher Pine Co.: Timber trespass, Eldorado National Forest. Payment of $266.55 received in full settlement and case closed.

United States *v.* Hillhouse and Mayes: Grazing trespass, Modoc National Forest. Payment of $60 received in full settlement and case closed.

United States *v.* Felice Leoni: Grazing trespass, Modoc National Forest. Case closed on payment of $56.82, the value of the forage.

United States *v.* Nevada-California Power Co.: Timber trespass, Mono National Forest. Case closed on payment of $135.30, representing settlement on an innocent basis.

United States *v.* Antone Joseph. Grazing trespass, Modoc National Forest. Case closed on payment of $119.27, value of the forage.

Law Cases in District 6—

United States *v.* Hammond Lumber Co.: School section, suit to quiet title, Santiam National Forest. October 29 Judge Bean, of the United States District Court for Oregon, rendered a decision holding that the SE. ¼ sec. 36, T. 9 S., R. 5 E. was unsurveyed, although the south and east township lines had been surveyed and the quarter section corners established. Since interior survey of township had not been made prior to forest withdrawal, the Hammond Lumber Co. acquired no title by conveyance from the State.

United States *v.* Jake S. McCown: Contempt of court. October 29 defendant was fined $25 and costs, amounting to approximately $42, for violation of injunction of September 15 directing him to discontinue grazing trespass on the Oregon National Forest.

United States *v.* Thomas E. Marks: Occupancy trespass, Snoqualmie National Forest. Defendant was brought before the United States Court for the Western District of Washington November 27, and the

jury returned a verdict of not guilty. The court instructed the jury that in determining claimant's good faith they might take into consideration the fact that he had pending before the Interior Department a petition for the exercise of the supervisory authority of the Secretary. The court instructed the jury, however, that the claimant had no right on the land after service of the decision of the Secretary of the Interior denying his motion for a rehearing.

United States *v.* James York: Occupancy trespass, Tongass National Forest. December 8 received notice from the United States attorney, Juneau, Alaska, that the case had been closed on payment by the trespasser of the fine of $25 a year for four years, during which time defendant had occupied Sumdum Island as a fox ranch.

United States *v.* Hartford & Eastern Railway Co.: Rates on logs, Snoqualmie National Forest. September 10 petition was filed with the Public Service Commission of Washington to require defendants to establish a rate on logs from certain points on its railroad to Hartford Junction with the Northern Pacific. Hearing held at Monte Cristo, Wash., December 1, and the defendants directed to establish rates requested.

United States *v.* Elmo Neil: Grazing trespass, Crater National Forest. November 9 trespasser paid $9 actual damage and $50 punitive damages. Case closed.

United States *v.* S. P. Beecher: Fire trespass, Wenatchee National Forest. December 10 trespasser plead guilty in the superior court of Chelan County and was fined $10.

United States *v.* Thomas Nolan, Bob Solen, and E. A. Matson: Conspiracy to destroy property of the United States. The defendants were indicted October 31 by the Federal grand jury for the western district of Washington for conspiracy to violate sections 49 and 52 of the Penal Code and were tried before the United States court for said district December 13 to 18, inclusive. The jury returned a verdict of guilty. Sentence has not yet been passed. The action was instituted by the supervisor of the Snoqualmie National Forest and the Snow Creek Logging Co., purchasers of National Forest timber on the Olympic National Forest. The testimony showed that the defendants, members of the I. W. W., went to the Snow Creek logging camp August 22, where a severe fire had broken out July 14, and made such representations to the men who were fighting the fire that about one-half of the 40 men who remained after the strike of July 18 discontinued fighting fire and left on the following morning, after which the fire continued to burn for several weeks, destroying additional Government timber. The defense was that the men went to the camp for the purpose of informing the men that they should remain there and continue fighting the fire.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 544.—The Red Spruce.

Department Bulletin 545.—Important Range Plants: Their Life History and Forage Value.

Department Bulletin 567.—Increased Yield of Turpentine and Rosin from Double Chipping.

Department Bulletin 580.—Effects of Grazing upon Western Yellow-Pine Reproduction in the National Forests of Arizona and New Mexico.

Department Bulletin 588.—Increased Cattle Production on Southwestern Ranges.

Farmers' Bulletin 826.—Eradicating Tall Larkspur on Cattle Ranges in the National Forests.

Circular 79.—Office of the Secretary.—Emergency Fuel from the Farm Woodlot.

Separate, Journal of Agricultural Research.—Natural Reproduction from Seed Stored in the Forest Floor.

Unnumbered Publication.—Guide book for the Identification of Woods Used for Railway Ties.

Unnumbered Publication.—Homesteads in the National Forests.

Unnumbered Publication.—Report of the Forester, 1917.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[January, 1918.]

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6; July (30); Jan. (91).

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1918

No. 13. Issued April 15, 1918.

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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE

HENRY S. GRAVES, Forester.

April Field Program, 1918.

This program of field work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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FINDLEY BURNS, in charge of technical review.

Educational cooperation, DON CARLOS ELLIS.

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State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass; W O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E Barton, State forester. Frankfort, Ky,; ———, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

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Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

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W. N. SPARHAWK, forest examiner, fire studies.

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FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

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FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry kiln specialist.

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Propeller Manufacture.—A. L. Heim, in charge A. C. Knauss, Louis Seutter.

Airplane Tests.—Prof. E. R. Maurer, in charge C. B. Norris, Hobart D. Frary.

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USES OF WOODS.—W. D. Brush.

LUMBER GRADES.—J. C. Nellis.

WOOD-WASTE EXCHANGE.—R. K. Helphenstine, jr.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, Albert H. Pierson. Collaborator: A. B. Strough, Albany, N. Y.

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ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

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ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

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SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, national forest examiner, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Savannah Area, W. N. Sloan, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Nantahala Area, J. W. Fox, Franklin, N. C., and James Denman, Asheville, N. C.; Pisgah Area, Walter H. Sullivan, Asheville, N. C.; Natural Bridge Area, Beverley M. Higginbotham, Buena Vista, Va.; Monongahela Area, Alfred R. Kinney, Elkins, W. Va.; Unaka Area, Carl F. Muzzey, Johnson City, Tenn.

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Topographic Surveys.—J. B. YULE.

Drafting.—K. D. SWAN.

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WATER POWER.—E. W. KRAMER, in charge.

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Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); R. A. Hamilton, deputy forest supervisor; C. N. Whitney, C. R. Clark, and W. C. Latane, forest examiners.

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Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–N).

Sioux.—See South Dakota.

SOUTH DAKOTA.

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WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN, via Priest River); A. J. Feary, deputy forest supervisor.

DISTRICT 2.

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Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.
Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

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Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad).

Washakie.—C. G. POOLE, forest supervisor, Lander (WU–Am); E. T. Wolf, forest examiner.

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, acting district forester; ——, forest examiner, information, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). MORTON M. CHENEY, acting assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; WARD SHEPARD, forest examiner, assistant in operation; CHAS. H. KISSAM, national forest examiner, improvement.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, MURRELL W. TALBOTT, HUGH M. BRYAN, and PAUL H. ROBERTS, grazing examiners.

LANDS.—FRANK E. ANDREWS, national forest examiner in charge. Classification: REX KING, forest examiner.

ENGINEERING.— ———.

ROADS.—C. A. LONG, acting.

WATER POWER.—C. A. LONG, acting.

MAPS AND SURVEYS.—LEE C. DAVES, acting.

Entry Surveys.—R. P. A. JOHNSON, surveyor.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P–WF); John A. Adams, deputy forest supervisor.

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P–WF); Lorenzo B. Maxwell, deputy forest supervisor.

Coronado—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU–WF); H. Basil Wales, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P–WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams; Francis L. W. Grubb, deputy forest supervisor (WU, P–WF).

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, forest supervisor, Grand Canyon (P–WF).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU–G); Edward P. Ancona, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); Robert Munro, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P–WF); James A. Scott, deputy forest supervisor. Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU–WF); William J. Anderson, deputy forest supervisor; J. Wilbur O'Byrne and Marinus Westveld, forest examiners.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P–G, WF); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursey, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; C. E. RUSSELL, educational cooperation.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JOHN C. BROWN, improvements.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery; N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest). Beaver Creek Nursery: A. E. Oman, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, R. J. BECRAFT, B. S. MARTINEAU, and L. J. PALMER, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of land classification; R. D. GARVER, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge, Ephraim, Utah; F. S. Baker, forest examiner (on detail, Washington office).

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am).

Cache.—See Utah.

Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU–Am); G. G. Henderson, deputy forest supervisor; T. B. Nichols, grazing studies.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P); J. C. Roak, deputy forest supervisor.

Lemhi.—VERNON METCALF, forest supervisor, Mackay (WU–Am); C. F. Evans, forest examiner.

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU–Am); J. W. Stokes, forest examiner (on detail, Washington office).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.

Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. C. Scribner, deputy forest supervisor.

Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU–Am); Leslie E. Dodge, deputy forest supervisor.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU–Am); John N. Kinney, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humbolt.—CLARENCE E. FAVRE, forest supervisor, Elko (WU–WF); Chas. DeMoisy, deputy forest supervisor.

Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF); David A. Arrivee, deputy forest supervisor.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF); J. Carl Allred, deputy forest supervisor.

Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU–Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); Nils B. Eckbo, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

ROY HEADLEY, acting district forester.

INFORMATION.—R. F. HAMMATT, in charge.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—CLARENCE WILEY, national forest inspector, in charge.

FIRE PROTECTION.— ———.

IMPROVEMENTS.— ———.

TELEPHONE ENGINEERING.—FREDERICK H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

FOREST INVESTIGATIONS.—STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

WATER POWER.—F. H. FOWLER.

MAPS AND SURVEYS.—J. C. DORT.

Drafting.—R. E. L. BORGFELDT.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Alder Springs (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—M. RAYMOND TILLOTSON, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (P–WF).

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF).

Mono.—See Nevada.

Monterey.—See Santa Barbara.

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); Frank B. Cayot, deputy forest supervisor; George R. Orr, forest examiner.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Bakersfield (WU–WF); George W. Lyons, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P–WF); E. B. Long, lumberman; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF); T. C. West, deputy forest supervisor.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF); W. A. Merrill, deputy forest supervisor.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernst V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS and L. A. NELSON, logging engineers; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner; L. E. MCDANIELS, deputy forest supervisor.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—A. H. WRIGHT and GEO. W. ROOT.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor, Seattle; WM. RYLE TEED, national forest examiner, State House, Olympia, Wash.

ENGINEERING.— ———.

MAPS AND SURVEYS.—A. H. HODGSON, in charge.

Drafting.—R. H. ROBERTSON.

Surveys.—CECIL A. LORD.

WATER POWER.—R. R. RANDELL, acting.

PRODUCTS.— ———.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); ———, deputy forest supervisor; R. S. Wallace, forest examiner.

Crater.—F. L. ERICKSON, forest supervisor, Medford (WU, P–WF); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton and John C. Kuhns, grazing examiners.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—Cy. J. Bingham, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—Ephraim Barnes, forest supervisor, Baker (WU–Am).

Ochoco.—V. V. Harpham, forest supervisor, Prineville (WU, PT & T–Am); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. Sherrard, forest supervisor, Portland (WU, P–Am, WF, N); Ralph S. Shelley and Carl B. Neal, deputy forest supervisors.

Santiam.—C. C. Hall, forest supervisor, Albany (WU, P–WF).

Siskiyou.—N. F. Macduff, forest supervisor, Grants Pass (WU, P–WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—H. B. Rankin, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. Cryder, forest supervisor, Pendleton (WU, P–Am).

Umpqua.—S. C. Bartrum, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. Harris, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. Evans, forest supervisor, Baker (WU–Am); I. E. Jones, deputy forest supervisor; O. F. Ericson, T. J. Starker, George L. Drake, and A. R. Wilcox, forest examiners; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. McDaniels, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. Brundage, forest supervisor, Portland, Oreg. (WU-P–Am; WF, N); W. B. Osborne, jr., forester examiner.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. Harris, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); H. L. Plumb, forest examiner.

Olympic.—R. L. Fromme, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P–Am, N); E. J. Fenby. deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—Stanton G. Smith, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.
Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU–Am, N).
Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester.

OPERATION.—H. O. STABLER, assistant district forester.

SILVICULTURE.—F. W. REED, assistant district forester.

GRAZING.—F. W. REED, assistant district forester.

LANDS.—F. W. REED, assistant district forester; W. F. HILL, land classification.

ENGINEERING.—H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—JOHN L. COBBS, jr., forest supervisor, Hot Springs (WU, P–WF, P).
Ozark.—C. J. HELLER, forest supervisor, Harrison (WU–WF).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola, Fla. (WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

PURCHASE AREAS.

Alabama.—W. R. BARBOUR, forest examiner, in charge, Moulton, Ala.
Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Blue Ridge, Ga. (WU, P–Ad).

Monongahela.—H. L. JOHNSON, deputy forest supervisor, Elkins, W. Va. (WU, P–Ad).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton, Ga. (WU, P–So).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg, Va. (WU, P–Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

White Top.—H. L. RUSSELL, deputy forest supervisor, Abingdon, Va. (WU, P–So).

White Mountain.—J. J. FRITZ, forest supervisor, Gorham, N. H. (WU, P–Am).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

WASHINGTON OFFICE.—George A. Bentley, clerk; John J. Black, draftsman.

DISTRICT 1.—Charles J. Hash, forest ranger, St. Joe; Charles A. Skeels, clerk, district office.

DISTRICT 2.—John C. Peryam, forest ranger, Hayden; Horace B. Quivey, forest ranger, Hayden; Arthur M. Cook, forest supervisor, Routt; Harry C. Bennett, forest ranger, Uncompahgre.

DISTRICT 3.—Marinus Westveld, forest examiner, Lincoln; Lafayette S. Kartchner, forest ranger, Sitgreaves; Harrison D. Burrall, forest examiner.

DISTRICT 5.—S. W. Wynne, forest supervisor, Sequoia.

DISTRICT 6.—William M. H. Woodward, mineral examiner; Walter H. Leve, forest examiner; Claude E. Greider, forest examiner; Adolph Nilsson, forest ranger; Roy Muncaster, forest ranger; James F. Hutton, forest ranger; Christian N. Skaar, forest ranger; Lewis E. Weaver, forest assistant.

APPOINTED.

LABORATORY.—Don L. Quinn, specialist in shipping container experiments; Ray C. Tuttle, examiner in forest products; Edward R. Maurer, specialist in testing air-craft materials; Herbert L. Dohr, Francis S. Gombar, Lynn W. Lillesand, Irving D. Steffen, John F. Lorigan, jr., Karl F. Miller, Harold J. Pratt, Gaigee S. Roberts, Saul S. Switzky, Fred J. Wilhelm, laboratory helpers.

DISTRICT 1.—Johnathan S. Winder, Absaroka, Otis B. Parker, Beartooth, Chas. A. Kutzleb, Beaverhead, Chas. H. Lawrence, Blackfeet, Albert N. Cochrell and Wm. H. Knight, Clearwater, James W. Stanton, Custer, Leon L. Lake and Fred N. Thomson, Jefferson, Francis W. Horrigan, Missoula, George R. Bickel, Sioux, Roy P. Edwards, forest rangers; Ralph A. Cherry, Lolo, forest clerk; Agnes I. Mevig, Coeur d'Alene, Ruby E. Tippin, Kaniksu, clerks (stenographers and typewriters); Hugh Kent, draftsman.

DISTRICT 2.—Fay A. Kendig, Colorado, Marguerite A. Mulligan, Sopris, clerks (stenographers and typewriters); Lee R. Semones, San Isabel, clerk (typewriter); John A. Lubbe, Nebraska, forest clerk; Virgil C.

Holcomb, Holy Cross, Rich R. Thomson, Montezuma, Marcy M. Meaden, Routt, Clifford C. Spencer, Shoshone, forest rangers; Herbert F. Hedge, draftsman (copyist topographic); Marian E. Buckingham, telephone operator.

DISTRICT 3.—Elsie M. Fink, Coronado, Ethel M. Bartell, Gila, clerks (stenographers and typewriters); Jay Montgomery, Tusayan, forest clerk; J. Eugene Beatty, Coronado, Clarence E. Weatherford, Datil, Bent S. Benson and Roy M. Pierce, Tonto, Fred Allen Ray and Walter E. Wetmore, Tusayan, Edwin W. Cummings, Fort Valley, forest rangers. Edna L. Williams, clerk (typewriter).

DISTRICT 4.—Walter T. Berry, Boise, Edward R. Tuttle, Cache, Clarence D. Huestis, Weiser, forest rangers; Mamie L. Cahalan, Targhee, clerk (stenographer and typewriter); Isaac A. Smoot, collaborator; Emyr E. Jones and Kathryn I. Melvin, clerks (typewriters); Heber J. Purdy, unskilled laborer; Allen R. Schwartzer, draftsman (copyist topographic); Joseph W. Tite, messenger boy; Alvin H. Johnson, minor clerk.

DISTRICT 5.—Katherine C. Davis, Lassen; Ethel K. Kinnear, Modoc, clerks (stenographers and typewriters); Claude W. Sopp, junior engineer.

DISTRICT 6.—Frank G. Cearns, forest clerk; Edith C. Wall, clerk (stenographer and typewriter); Gustaf W. Hult, R. Thomas Carter, Joseph W. Fulton, forest rangers; John W. S. Todd, messenger.

DISTRICT 7.—Joel O. Brigman, Lewis M. Carland, and Leory O'Kelley, Pisgah, Max McCullough, Cherokee-Georgia, Troy A. Simpkins, Wichita, James D. Ruble, Alabama, forest rangers; Martin C. Bowers, White Top, assistant forest ranger.

PROMOTED IN RANK.

DISTRICT 1.—R. A. Hamilton, deputy forest supervisor, Deerlodge, to forest supervisor, Clearwater; A. M. Baum, Beartooth, James E. Ryan, Pend Oreille, forest rangers to deputy forest supervisors; C. L. Billings, forest examiner to lumberman; W. M. Nagel, forest assistant to forest examiner.

DISTRICT 2.—Wallace J. Pearce, Colorado, forest assistant to forest examiner; Carl M. Stanley, Pike, clerk to deputy forest supervisor; Ray Peck, Routt, deputy forest supervisor to forest supervisor; Lynn H. Douglas, grazing examiner to inspector of grazing.

DISTRICT 3.—Fred Merkle, Manzano, forest ranger to scaler; Kenner C. Kartchner, Sitgreaves, Francis L. W. Grubb, Tusayan, forest rangers to deputy forest supervisors; Thomas Earl Wylder, Grand Canyon, deputy forest supervisor to forest supervisor; Morton M. Cheney, national forest examiner to law clerk (and assistant to the solicitor).

DISTRICT 5.—M. Raymond Tillotson, deputy forest supervisor, Stanislaus, to forest supervisor, Cleveland; Frank P. Cunningham, Sequoia,

deputy forest supervisor to forest supervisor; Clarence A. Chamberlain, Trinity, forest ranger to deputy forest supervisor; George W. Lyons, Sequoia, forest examiner to deputy forest supervisor.

DISTRICT 6.—Lorence A. Nelson, lumberman to logging engineer; Carl B. Neal, forest examiner to deputy forest supervisor.

DISTRICT 7.—John L. Cobbs, jr., forest examiner, Washington office, to forest supervisor, Arkansas; Leland Fouts, Cherokee-Georgia, assistant forest ranger to forest ranger.

CHANGE IN DESIGNATION.

DISTRICT 2.—Robert H. Easterbrooks, Medicine Bow, Andrew Hutton, Rio Grande, forest assistants to forest rangers.

DISTRICT 6.—George L. Drake, deputy forest supervisor to forest examiner.

DISTRICT 7.—Ralph C. Huey, forest supervisor to national forest examiner.

RESIGNED.

RESEARCH.—Benton MacKaye, forest examiner.

ACQUISITION.—L. H. Steffens, forest examiner.

LABORATORY.—James E. Imrie, assistant physicist; James Mathewson, engineer in forest products; Philip W. Codwise, Moritz L. Mueller, Milton H. Hostman, Cecil V. Maudlin, assistant engineers in forest products.

DISTRICT 1.—Scott Leavitt, Jefferson, forest supervisor; Lewis T. Morgan, Jefferson, S. St. J. Malven, Flathead, deputy forest supervisors; Dallas E. Galloway, Coeur d'Alene, Eugene J. Jacroux, Flathead, scalers; Jas. W. Gallogly, Bitterroot, Wm. E. Lockhart, Beartooth, August Yager and Albert E. Frutig, Coeur d'Alene, Wm. Berglund, Jefferson, Martin A. Murray, Kaniksu, Wm. H. McCoy, Madison, David F. McGill, Sioux, forest rangers; Margaret T. Douglass, Deerlodge, Mabel F. Painton, Helena, Fannie E. Paulson, clerks (stenographers); R. J. Moore, national forest examiner; Knox McAnally, clerk.

DISTRICT 2.—Raymond G. Colwell, Fremont Experiment Station, forest clerk; James E. Martin, Bighorn, forest examiner; Thomas L. Northrop, Cochetopa, Theodore Shoemaker, Harney, Gustaf W. Gustafson and Hugh I. Smith, Holy Cross, Samuel Harry Clay, Leadville, John W. Wright, San Isabel, Walter G. Brown, San Juan, Joseph B. Hull, Sopris, forest rangers; Jane Dyer, clerk (stenographer and typewriter); Mrs. Margaret Cummings, telephone operator.

DISTRICT 3.—Charles H. Jennings, Lincoln, forest supervisor; Grace M. Sweeney, Coronado, clerk (typewriter); Herbert B. Fay, Coconino, Lewis J. Mundell, Datil, James W. Girdner, Tusayan, forest rangers;

Charles N. Kachlmeier, Fort Valley, Mrs. Edith P. K. Hall, clerks (stenographers and typewriters); Aldo Leopold, forest examiner; Cecil R. Heighes, messenger boy.

DISTRICT 4.—Verne W. Earls, Ashley, Frank E. Gray, Boise, John L. Allen, Bridger, Allan Williams, Challis, J. Roy Boren and Maurice B. Cross, Humboldt, Franklin A. Hamilton, Idaho, Charles P. Thompson, Nevada, Clarence L. McCracken, Salmon, Amos N. Davis, Teton, Thomas Evans and Ellis B. Snow, Weiser, Frederick C. Haman, forest rangers; Edward A. Pfefferle, Minidoka, forest clerk; Vivian N. Gwin, Powell, clerk (stenographer and typewriter); John E. Ingram, Wasatch, forest examiner; Howard D. Harris, Utah Experiment Station, Lulu L. Cloudman, clerks (typewriters); Anton I. Lubeck, laborer; Dorris Williams, clerk (stenographer and typewriter); James M. Fetherolf, forest examiner.

DISTRICT 5.—Gertrude B. Jameson, Lassen, clerk (stenographer and typewriter); Walter J. Zachau, Angeles, John B. Simmons, Cleveland, Fred Seaborn, Lassen, forest rangers; Knower Mills, Klamath, forest examiner; H. G. Merrill, Monterey, forest supervisor; Ernest B. Long, Shasta, lumberman; Jos. C. Quast, Trinity, forest clerk; Ralph W. Sinfield, blueprinter; Luther H. Whiteman, district assistant in forest education.

DISTRICT 6.—Robert Craig, jr., deputy forest supervisor; Charles H. Woodcock, logging engineer; Grover C. Simmons, Edward E. Harpham, scalers; David H. Blakelock, draftsman; William L. Bishop, U. LeRoi Upson, clerks; Ernest E. Shank, forest clerk; Carl N. Miller, E. George Williams, Joseph L. Jacob, Albert W. Lewis, Clarence Anderson, Peter A. Dixon, Homer J. Ireland, Hugh C. Austin, forest rangers; Oliver A. Barr, messenger.

DISTRICT 7.—Dave Winbray and James M. Wait, Arkansas, forest rangers; W. D. Jones and John W. Ryals, Arkansas, assistant forest rangers; C. L. Smith, national forest examiner.

DISMISSED.

DISTRICT 4.—Glidden J. Barstow, Wyoming, forest ranger.

With deep regret announcement is made of the death of Stanley R. Auspurger and Roy Muncaster, members of the Twentieth Engineers, who lost their lives in the sinking of the transport *Tuscania,* and Osmund H. Tibbott, clerk, Washington office, January 20.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* W. S. Alexander: Grazing trespass, civil, Cabinet National Forest. Case closed upon payment of $4.68, value of forage consumed.

United States *v.* Carl Beardslee: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $219.75, value of forage consumed.

United States *v.* J. H. Bras: Grazing trespass, civil, Cabinet National Forest. Case clased upon payment of $4.18, value of forage consumed.

United States *v.* Harold Flower: Grazing trespass, civil, Cabinet National Forest. Case closed upon payment of $7.52, value of forage consumed.

United States *v.* W. G. Jones: Grazing trespass, civil, Cabinet National Forest. Case closed upon payment of $9.75, value of forage consumed.

United States *v.* E. B. Kenniston: Grazing trespass, civil, Gallatin National Forest. Case closed upon payment of $62.50, value of forage consumed.

United States *v.* James Lewis: Grazing trespass, civil, Missoula National Forest. Case closed upon payment of $7.50, value of forage consumed.

United States *v.* Mountain Park Farm Co.: Grazing trespass, civil, Gallatin National Forest. Case closed upon payment of $75, value of forage consumed.

United States *v.* William Watt: Grazing trespass, civil, Custer National Forest. Case closed upon payment of $11.73, value of forage consumed.

United States *v.* Joseph Guntensperger: Property trespass, criminal, Coeur d'Alene National Forest. Defendant held by United States commissioner at Kellogg, Idaho, for action of Federal grand jury. Offense, cutting Government fence.

State of Montana *v.* Miles E. Brown: Beartooth National Forest. Brown, a former forest guard, had issued bad checks on the strength of his former position. Plead guilty at Livingston, Mont., February 9, 1918. Sentenced for from two to four years in the State penitentiary.

United States *v.* H. J. Ziegler: Timber trespass, civil, Blackfeet National Forest. Case closed upon payment of $110.92, value of timber cut.

Law Cases in District 2—

United States *v.* Colorado Power Co.: Occupancy trespass, Holy Cross National Forest. Defendant company paid into court the sum of $5,815.55, the full amount claimed by the Government for the use of its lands up to January 1, 1915, and the district court then dismissed the Government's bill of complaint. Recommendation made to Department of Justice that an appeal be filed.

United States *v.* Colorado and Southern Railroad Co.: Fire trespass, Pike National Forest. Defendant paid to the United States attorney the sum of $655.98 and costs, the full amount of damages claimed.

United States *v.* William A. Smith: Occupancy trespass, Harney National Forest. Case closed on payment of $37.46, the amount of damages claimed.

United States *v.* C. J. Betts: Occupancy trespass, Cochetopa National Forest. Case closed on payment of $9.24, the amount of damages claimed.

United States *v.* Western Colorado Power Co.: Occupancy trespass, Montezuma National Forest. Preliminary injunction in favor of the Government made permanent, and case closed.

United States *v.* May & Campbell: Grazing trespass, Battlement National Forest. Case closed on payment of $217.50, the amount of damages claimed.

Law Cases in District 3—

United States *v.* S. T. Harrison: Timber trespass, Coronado National Forest. Case closed on payment of $24.20, actual damages.

United States *v.* C. W. Young: Grazing trespass, Apache National Forest. Case closed on payment of agreed sum of $48.

United States *v.* W. F. Thompson: Grazing trespass, Lincoln National Forest. Case closed on payment of $8.33, the value of the forage.

United States *v.* Sutton & Perkins: Grazing trespass, Prescott National Forest. Case closed on payment of $30, the value of the forage.

United States *v.* Manuel B. Otero: Grazing trespass, Datil National Forest. Case closed on payment of agreed sum of $53.55.

United States *v.* E. M. Durham: Grazing trespass, Prescott National Forest. Case closed on payment of $35.40, actual damages.

United States *v.* Lorenzo P. Garcia: Grazing trespass, Datil National Forest. Case closed on payment of $19.87, actual damages.

United States *v.* E. Wine: Grazing trespass, Prescott National Forest. Case closed on payment of $43.75, actual damages.

United States *v.* W. P. Griffin: Grazing trespass, Tusayan National Forest. Case closed on payment of $381.50, actual damages.

United States *v.* Babbitt Bros.: Grazing trespass, Tusayan National Forest. Case closed on payment of $309, actual damages.

United States *v.* Herbert G. Babbitt: Grazing trespass, Tusayan National Forest. Case closed on payment of $437.50, actual damages.

United States *v.* Martin Buggeln: Grazing trespass, Tusayan National Forest. Case closed on payment of $237, actual damages.

United States *v.* Geo. C. Morse & Co.: Grazing trespass, Tonto National Forest. Case closed on payment of $162, actual and $50 punitive damages.

United States *v.* R. B. Corbett: Grazing trespass, Tusayan National Forest. Case closed on payment of $432.63, actual damages.

United States *v.* Babbitt-Polson Co.: Grazing trespass, Tusayan National Forest. Case closed on payment of $3.75, actual damages.

United States *v.* B. F. Sweetwood: Grazing trespass, Tusayan National Forest. Case closed on payment of $203.75, actual damages.

United States *v.* T. D. Burns: Grazing trespass, Carson National Forest. Case closed on payment of $23.20, actual damages.

United States *v.* Colin Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $61, including $50 punitive damages.

United States *v.* Cleofes Romero: Timber trespass, Manzano National Forest. Case closed on payment of $1,060.52, actual damages.

United States *v.* Franz Cooper: Grazing trespass, Tonto National Forest. Case closed on payment of $153.67, actual damages, with $5 estimated costs.

United States *v.* A. F. Polson: Grazing trespass, Tusayan National Forest. Case closed on payment of $184.25, actual damages.

United States *v.* Mrs. Elizabeth Holden: Grazing trespass, Tusayan National Forest. Case closed on payment of $87, actual damages.

United States *v.* I. M. Jackson: Grazing trespass, Tusayan National Forest. Case closed on payment of $595.50, actual damages.

United States *v.* Leslie J. Ake: Grazing trespass, Datil National Forest. Stock removed on demand, and case closed on payment of agreed amount of $20.40.

United States *v.* R. F. Keene & E. Roseberry: Grazing trespass, Gila National Forest. Decree pro confesso obtained requiring removal of stock and enjoining against further trespass.

United States *v.* B. A. & N. J. Cameron: Occupancy trespass, Grand Canyon. Appeal by defendant from injunction issued by District Court for District of Arizona argued before the Circuit Court of Appeals for the Ninth District.

Ralph H. Cameron *v.* W. W. Bass: Writ of error from the Supreme Court of Arizona to the Supreme Court of the United States secured by the plaintiff, and transcript being prepared.

United States *v.* Theodore Cannard: Occupany trespass, Carson National Forest. Final hearing, and decree obtained requiring removal of fence erected by defendant in trespass on alleged mill site.

State of Arizona *v.* J. H. Silvester: Criminal libel, Coconino National Forest. Trial by jury, and defendant found guilty. Motion for new trial pending.

United States *v.* Francisco Borunda, jr. Grazing trespass, Lincoln National Forest. Case closed on payment of $10.35, actual damages.

United States *v.* J. H. Steen: Grazing trespass, Datil National Forest. On second demand, case closed on payment of $72.50, actual, and $100, punitive damages.

United States *v.* Medler Bros.: Grazing trespass. Tonto National Forest. Case closed on payment of $224.92, actual damages.

United States *v.* Santos Ortega: Grazing trespass, Prescott National Forest. Case closed on payment of $41.25, actual damages.

Law Cases in District 4—

Geo. W. Emigh *v.* Matthews et al: Special, Minidoka National Forest. Suit brought by Emigh claiming as a squatter in a National Forest to enjoin Matthews and others, permittees of the Forest Service, from watering sheep at a spring within the squatter location. Decision by Idaho State court that a squatter location within the Forest is invalid and that the injunction could not be maintained.

United States *v.* Grand Canyon Cattle Co.: Suit to vacate patents issued to Saunders and Haley for mineral claims alleged to have been taken to control desert watering places. Decision of the United States Circuit Court of Appeals at San Francisco, sustaining decision of United States District Court for Arizona, that Grand Canyon Cattle Co. was an innocent purchaser and entitled to retain the lands.

Law Cases in District 5—

United States *v.* Alpine Land & Reservoir Co.: Easement for reservoir sites, Mono National Forest. Case argued in District Court. Judge rendered a decision in favor of the Government, canceling the grant. Final decree filed.

United States *v.* Kern River Co.: Easement, Sequoia National Forest. Case submitted to court and the motion to dismiss was overruled on the ground that the amended bill showed sufficient allegations of fraud to sustain it.

United States *v.* W. J. Davis, et al.: Fire trespass, California National Forest. Defendants tried at Sacramento, Cal., March 4 and 5. Verdict of acquittal for West; disagreement as to Hulett and Davis, the last-named defendants to be retired in April.

United States *v.* San Pedro, Los Angeles & Salt Lake Railroad Co.: Fire trespass, Angeles National Forest. Case set for hearing March 26, 1918. Defendant indicated a desire to compromise for $1,150. Total amount involved, $1,464.27. Case postponed and offer under consideration.

United States *v.* Oscar Hotchkiss: Grazing trespass, Modoc National Forest. Complaint filed. Offer of settlement in full made by defendant.

United States *v.* John Dennehy: Grazing trespass, Modoc National Forest. Complaint filed.

United States *v.* R. L. Hill: Timber trespass, Sequoia National Forest. Payment of $50 received from trespasser in part payment of judgment for $110.16.

United States *v.* J. Sario: Grazing trespass, Mono National Forest. Payment of $56 received in full settlement and case closed.

United States *v.* John Ammirati: Grazing trespass, Shasta National Forest. Payment of $75 received in full settlement and case closed.

United States *v.* Weed Lumber Co.: Timber trespass, Shasta National Forest. Payment of $19.20 received in full settlement and case closed.

Law Cases in District 6—

United States *v.* Hartford & Eastern Railway Co. and Northern Pacific Railway: Rates on logs, Snoqualmie National Forest. Petition of Forest Service granted January 2, and Hartford & Eastern and Northern Pacific Railway Cos. directed to establish rate on logs of $1.60 to Everett and $1.75 to Kirkland. The rates quoted and against which complaint was filed were $2.40 and $3.20, respectively.

United States *v.* P. J. McHugh and P. J. McHugh Paving and Construction Co.: Fire trespass, civil, Snoqualmie National Forest. Motion for new trial denied January 25.

United States *v.* Yakima Meat Co.: Grazing trespass, Rainier National Forest. Case closed March 27 on payment of $200 ($100 actual and $100 punitive damages).

United States *v.* C. R. Hurstt: Fire trespass, Santiam National Forest. Defendant plead guilty to information December 28, 1917, and was fined $25.

United States *v.* W. H. Harris: Grazing trespass, Oregon National Forest. Indictment returned March 1.

United States *v.* John Heart: Timber trespass, Minam National Forest. Case closed upon payment of $9.99, February 15, 1918.

United States *v.* Amos Pennoyer: Timber trespass, Minam National Forest. Case closed upon payment of $38.34, February 23, 1918.

United States *v.* G. C. Tucker: Grazing trespass, Minam National Forest. Case closed upon payment of $12, March 11, 1918.

United States v. J. H. Chatten: Grazing trespass, Wallowa National Forest. Case closed upon payment of $6, March 25.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 580.—Effects of Grazing upon Western Yellow Pine Reproduction in the National Forests of Arizona and New Mexico.

Department Bulletin 604.—Incense Cedar.

Department Bulletin 605.—Lumber Used in the Manufacture of Wooden Products.

Department Bulletin 620.—Effect of Varying Certain Cooking Conditions in the Production of Sulphite Pulp from Spruce.

Farmers' Bulletin 888.—Advice to Forest Planters in the Plains Regions.

Report No. 115.—The Distribution of Softwood Lumber in the Middle West.—Wholesale.

Report No. 116.—The Distribution of Softwood Lumber in the Middle West.—Retail.

Unnumbered Publication.—Forestry Laws of Colorado.

Unnumbered Publication.—Forestry Laws of West Virginia.

Unnumbered Publication.—Area Table.

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1918

No.14. Issued July 15, 1918.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1918.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.
WILLIAM L. HALL, Assistant Forester.
E. A. SHERMAN, Assistant Forester.

D. D. BRONSON, forest inspector.
A. O. WAHA, forest inspector.
G. G. ANDERSON, assistant to the Forester.
MAINTENANCE.—BILLIE I. SHANNON, in charge.
STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS, in charge.
SUPPLIES.—S. L. MCLAURIN, property clerk.
EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
EDUCATIONAL COOPERATION.—DON CARLOS ELLIS.
PROOFS AND FORMS.—CLAUDE M. BALLARD.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.
SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.
PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, forest inspector, in charge; CLINTON G. SMITH, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; F. B. Moody, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, acting in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester, in charge; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, In charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

ELERS KOCH, forest supervisor, on detail.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relation Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—J. W. STOKES, on detail.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in coperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist.

Commercial extension.—Rolf Thelen (on detail, Washington office).

Review of results.—Ray C. Tuttle, acting in charge.

Lumber studies.—Henry J. Hegel, in charge; D. G. White, S. W. Allen, R. A. Colgan, W. W. Morris.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, H. M. Mayo, G. W. Blanco, D. E. Cable, F. C. Coulson.

ENGINEERING.—F. E. BONNER, in charge; B. L. Nelson, C. H. Clevenger.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—H. E. Surface, G. C. McNaughton, Sidney D. Wells, V. P. Edwardes.

TIMBER PHYSICS.—FRANK J. HALLAUER, in charge; C. A. Kupfer, Eloise Gerry, M. E. Diemer, A. Koehler, Gertrude Griffin, C. W. Gould, James D. Studley, M. C. Jensen, Thos. R. Stoltenberg, C. V. Sweet, Lawrence V. Teesdale, D. R. Brewster, J. L. Brownlee.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, assistant in charge; T. R. C. Wilson, special assistant; J. S. Mathewson, J. O. Bixby.

Box Design.—Don L. Quinn, in charge; L. R. Morris, R. B. Quincy, J. B. Frear, H. M. Hale.

Propeller Manufacture.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter.

Airplane Tests.—Prof. E. R. Maurer, in charge; Hobart D. Frary, C. B. Norris, Rufus Crane, E. P. Johnson, J. A. Hanson, R. E. Deutsche.

Timber Tests.—G. E. Heck, in charge; H. S. Grenoble, Armin Elmendorf, J. R. Watkins, W. S. Broome, R. E. Johnston, C. E. Dennis, H. J. Rosenthal, C. A. Plaskett, R. F. Luxford, R. M. Wirka, L. A. Welo, E. D. Fahlberg, R. P. A. Johnson, D. P. Gilmore, W. S. Wilder, L. L. Call, Peter Skurdalsvold, G. M. Griffith.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt, P. R. Hicks, Matthew E. Dunlap, Olenus L. Sponsler, S. B. Henning, Samuel Schwartz, Alfred C. Lindauer, Frederick L. Browne, Samuel Butterman, Melville H. Price, Edward P. Devlin, T. R. Truax.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge; ROLF THELEN, on detail.

STUDIES.—J. T. Harris.

USES OF WOODS.—W. D. Brush.

WOOD-WASTE EXCHANGE.—R. K. Helphenstine, jr.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, Albert H. Pierson. Collaborator: A. B. Strough, Albany, N. Y.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge (temporarily on detail to the Forest Products Laboratory); C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham,

N. H.; C. D. Cushing, Johnson City, Tenn.; George W. Marshall, Clayton, Ga. Forest examiners: White Mountains, H. S. Davis, Gorham, N. H.; Monongahela, S. H. Thompson, Elkins, W. Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, R. J. Noyes and party, Marion, N. C.; Savannah Area, C. E. Beaumont (in charge of party), Clayton, Ga.; Nantahala Area, W. J. Damtoft (in charge of party) and George F. Greenleaf, Asheville, N. C.; Alabama Area, E. J. Meade (in charge of party), Moulton, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, national forest examiner, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Carl F. Muzzey, Harrisonburg, Va.; Nantahala Area, W. N. Sloan and J. W. Fox, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Pisgah Area, Walter H. Sullivan and James Denman, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Biltmore, N. C.; John W. Van Hoy, Marion, N. C.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester; C. L. BILLINGS, lumberman.

LOGGING ENGINEERING.—J. W. GIRARD, logging engineer.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.— ———.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.— ——.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester; BURR W. CLARK, executive assistant.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU–Am); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU–Am); C. A. Dahlgren, lumberman; R. G. Merritt and James H. Hull, forest examiners.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU–Am); F. J. Jefferson, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU–Am, NW); Jas. E. Ryan, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU–N); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental–WF).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU–Am, N); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU–Am, N); A. M. Baum, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU–Am); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P–Am, N); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU–Am, GN); C. B. Baker, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU–Am, N).

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU–Am, N); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P–Am, N); W. W. Weber, deputy forest supervisor; C. N. Whitney, C. R. Clark, and W. C. Latane, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU–Am, GN); L. G. Hornby, deputy forest supervisor; H. R. Flint, forest examiner, timber sales.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU–Am, N); A. H. Abbott, deputy forest supervisor.

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU–Am, N).

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU–Am, N); W. J. Derrick, deputy forest supervisor.

Kootenai.—C. M. STEVENS, forest supervisor, Libby (WU–Am, GN); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU–Am, GN).

Lolo.—W. W. WHITE, forest supervisor, Missoula (WU, P–Am, N).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU–Am, N).

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P–Am, N).

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU–Am, N); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

Kaniksu.—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River–Am, GN, via Priest River); A. J. Feary, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; T. W. VENEMANN, information; W. I. HUTCHINSON, recreation.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer; W. I. HUTCHINSON, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forester examiner in charge; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs, (WU–Ad); Allen W. Murdock, forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU–Ad).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU–Ad); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU–Ad, Am); Wallace J. Pearce, forest examiner.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU–Ad); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU–Ad); Percy T. Smith, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU–WF, Ad); Peter Keplinger, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P–Ad, WF).

Monteuzma.—GORDON PARKER, forest supervisor, Mancos (WU–Ad).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P–Ad, Am, WF); Carl M. Stanley, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU–Ad); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU–Ad); A. L. Richey, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU–Ad).

San Juan.—A. F. C. HOFFMAN, forest supervisor, Pagosa Springs (WU–Ad); Chas. B. Mack, deputy forest supervisor.

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU–Ad).

Uncompahgre.—J. W. LOWELL, Jr., forest supervisor, Delta (WU–Ad); Harold L. Borden, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU–WF, Ad); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU–Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU–Am, WF, GN). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU–Am, GN).

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU–Ad). Morton Nursery, Nenzil. Bessey Nursery, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU–Ad, Am); William Wiehe, deputy forest supervisor; L. E. Hitchcock, forest examiner; Earl W. Tinker, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU–Ad); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU–Ad); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P–Am).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P–Am); Andrew Hutton, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU–Ad); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Landor (WU–Am).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; WARD SHEPARD, forest examiner, educational cooperation, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). MORTON M. CHENEY, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; WARD SHEPARD, forest examiner, assistant in operation.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, HUGH M. BRYAN, and PAUL H. ROBERTS, grazing examiners.

LANDS.—FRANK E. ANDREWS, national forest examiner, in charge. Classification: REX KING, forest examiner.

ENGINEERING,—C. A. LONG, district engineer.

MAPS AND SURVEYS.—LEE C. DAVES, in charge.

Drafting.— ———.

Entry Surveys.—FRANK D. YOST, surveyor.

ROADS.—C. A. LONG, in charge.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P–WF); John A. Adams, deputy forest supervisor.

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P–WF); Lorenzo B. Maxwell, deputy forest supervisor; Leonard R. Lessel, national forest examiner.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU–WF); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forester supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU–WF).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU–WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P–WF); Kenner C. Kartchner, deputy forest supervisor.

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU–WF); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams; Francis L. W. Grubb, deputy forest supervisor (WU, P–WF).

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, forest supervisor, Grand Canyon (P–WF).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU–G); Edward P. Ancona, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P–WF); Robert Munro, national forest examiner; L. R. De Camp, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P–WF); James A. Scott, deputy forest supervisor. Fort Bayard Nursery.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU–WF); Willard M. Drake, forest examiner; William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P–WF).

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P–G, WF); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—C. C. BRUNNER, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; F. J. RYDER, national forest examiner, executive assistant.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON and R. J. BECRAFT, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge, Ephraim, Utah; F. S. Baker, forest examiner (on detail, Washington office).

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU–WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU–Am); Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU–Am); G. G. Henderson, deputy forest supervisor; T. B. Nichols, grazing studies.

Challis.—DAVID LAING, forest supervisor, Challis (WU–Am).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P); J. C. Roak, deputy forest supervisor.

Lemhi.—CHAS F. EVANS, forest supervisor, Mackay (WU–Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU–Am); J. W. Stokes, forest examiner (on detail, Washington office).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU–Am); F. S. Moore, deputy forest supervisor.

Salmon.—DANA PARKINSON, forest supervisor, Salmon (WU–Am); S. C. Scribner, deputy forest supervisor.

Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU–Am); Leslie E. Dodge, deputy forest supervisor.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU–Am); John N. Kinney, deputy forest superviser.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU–Am); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—CHAS. DEMOISY, Jr., forest supervisor, Elko (WU–WF); Alexander McQueen, deputy forest supervisor.

Nevada.—F. L. MOTT, forest supervisor, Ely (WU–WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P–WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU–WF).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU–Am); Edmund B. S. Spencer, deputy forest supervisor.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU–WF).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU–WF); Bert L. Robins, deputy forest supervisor.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU–WF).

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU–WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU–WF).

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU–WF).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU–WF); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU–WF).
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P–Am, WF); David A. Arrivee, deputy forest supervisor. Louis B. Koch, sealer, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU–Am).
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU–Am).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU–Am); Nils B. Eckbo, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

ROY HEADLEY, acting district forester.

INFORMATION.—R. F. HAMMATT, in charge.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—CLARENCE WILEY, national forest inspector, in charge.

TELEPHONE ENGINEERING.—FREDERICK H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

FOREST INVESTIGATIONS.—STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

MAPS AND SURVEYS.—J. C. DORT, in charge.

Drafting. R. E. L. BORGFELDT.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P–WF).

California.—J. D. COFFMAN, forest supervisor, Alder Springs (WU via Willows–WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, Escondido (WU–WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU–WF).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU–WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU–WF).

Lassen.—JAMES O. MORROW, forest supervisor, Mineral (WU–WF); T. C. West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU–WF).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU–Am); George R. Orr, forest examiner.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P–WF).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU–WF); George W. Lyons, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P–WF); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–WF via Friant); J. V. Wulff, forest examiner.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU–WF).

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU–WF).

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU–WF); Ernst V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU–WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS and L. A. NELSON, logging engineers; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, T. J. STARKER, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—A. H. WRIGHT and GEO. W. ROOT.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor, Seattle; WM. RYLE TEED, national forest examiner, State House, Olympia, Wash.

ENGINEERING.—P. H. DATER, district engineer.

MAPS AND SURVEYS.—A. H. HODGSON.

Drafting.—R. H. ROBERTSON.

Surveys.—CECIL A. LORD.

WATER POWER.—R. R. RANDELL.

PRODUCTS.— ———.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P–WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU–AP, Am); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P–WF); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P–WF); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton and John C. Kuhns, grazing examiners.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev–P, WF); R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Am, WF via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU–Am); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T–Am); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P–Am, WF, N); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P–WF).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P–WF); ———, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P–WF); C. T. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P–Am).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P–WF); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU–Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU–Am); I. E. Jones, deputy forest supervisor; T. J. Starker, George L. Drake, and A. R. Wilcox, forest examiners; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MacDaniels, forest supervisor, Chelan (PT & T–Am, GN via Wenatchee).

Columbia.—F. H. Brundage, forest supervisor, Portland, Oreg. (WU, P–Am, WF, N); W. B. Osborne, jr., forest examiner.

Colville.—C. C. Reid, forest supervisor, Republic (WU, P–Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. Harris, forest supervisor, Okanogan (PT & T–Am, GN via Wenatchee); G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. Fromme, forest supervisor, Olympia (WU, P–Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik and O. F. Ericson, forest examiners.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P–Am, N); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—Stanton G. Smith, forest supervisor, Seattle (WU, P–N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. Park, forest supervisor, Bellingham (WU, P–Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—L. E. McDaniels, forest supervisor, Walla Walla (WU–Am, N).

Wenatchee.—A. H. Sylvester, forest supervisor, Leavenworth (WU–Am, GN).

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

OPERATION.—H. O. Stabler, assistant district forester.

SILVICULTURE.—F. W. Reed, assistant district forester.

GRAZING.—F. W. Reed, assistant district forester.

LANDS.—F. W. Reed, assistant district forester; W. F. Hill, land classification.

ENGINEERING.—H. O. Stabler, assistant district forester; R. C. Huey, roads.

NATIONAL FORESTS.

ALABAMA.

Alabama.—E. J. Mead, forest examiner, in charge, Moulton, Ala.

ARKANSAS.

Arkansas.—JOHN L. COBBS, Jr., forest supervisor, Hot Springs (WU, P–WF, P); C. N. Hammond, deputy forest supervisor.

Ozark.—C. J. HELLER, forest supervisor, Russellville (WU–WF).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola, Fla. (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Blue Ridge, Ga. (WU, P–Ad).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton, Ga. (WU, P–So).

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham, N. H. (WU, P–Am).

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P–So); J. St. J. BENEDICT, forest examiner, timber sales.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU–WF).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See Georgia.

TENNESSEE.

White Top.—(Includes Unaka and White Top purchase areas.) H. L. RUSSELL, forest examiner in charge, Johnson City, Tenn. (WU, P–So).

Cherokee.—See Georgia.

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P–So).

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P–Ad, So).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg, Va. (WU, P–Ad, So).

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins, W. Va. (WU, P–Ad).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

LABORATORY.—Arthur B. White and John F. Lorigan, laboratory helpers.

DISTRICT 1.—Otis B. Parker, Beartooth; C. A. Kutzleb and Vernon C. Sheffield, Beaverhead; A. N. Cochrell, Clearwater; Robert C. Clark, Missoula; Otto E. York, Sioux, forest rangers. W. L. Lay, Custer, forest clerk; Georgia Hollier, Gallatin, clerk (stenographer and typewriter); Hugh Kent and Jean Ewen, topographic draftsmen; W. M. Nagel, forest examiner; Lloyd Zbinden, messenger.

DISTRICT 2.—William O. P. Fullerton, Arapaho; John William Delaney, Medicine Bow; Jesse M. Mann, Pike; John L. Glendening, White River, forest rangers.

DISTRICT 3.—Walter E. Mickelson, Coconino; J. Eugene Beatty, Coronado; Asa E. Messer, Lincoln; Frank E. Brennan, Grand Canyon National Monument, forest rangers. Charles H. Kissam, national forest examiner.

DISTRICT 4.—Alma A. Miller, packer, supply depot; George W. Smith, forest ranger, Challis; Clarence E. Favre, forest supervisor, Humboldt; Harrold C. Haglund, forest clerk, Idaho; Arthur L. Smith, forest ranger, Lemhi; Allen R. Schartzer, draftsman (copyist-topographic).

DISTRICT 6.—H. Vivian Brown and Gustavus A. Whitehead, forest rangers; H. Lansing Plumb, forest assistant.

DISTRICT 7.—Roy T. Reed, Shenandoah, forest ranger.

APPOINTED.

RESEARCH.—Kenneth McR. Clark, logging engineer.

LABORATORY.—Carrol V. Sweet, specialist in kiln drying; Donald R. Brewster, forest examiner; Armin Elmendorf, George E. Heck, and Hobart D. Frary, engineers in forest products; Archibald C. Knauss, Chas. E. Dennis, jr., and Peter Skurdalsvold, assistant engineers in forest products.

DISTRICT 1.—Harold E. Worsley, Beartooth; George R. Steppler, Blackfeet; Harry F. Ransom, Cabinet; A. L. Giddings, Jefferson; Arthur E. Pauley, Kaniksu; Alvin E. Beckwith, Kootenai; Emory L. Marlow, Lewis and Clark; Harvey B. Rust, Madison; Robert C. Clark and August Riggert, Missoula; Charles A. Loitved, Selway; Harry R.

Lovely, St. Joe, forest rangers. Mary E. Parr, Beartooth; Edward J. Hoell, Gallatin; Aleathea B. Howard, Pend Oreille; Harry K. Nichols, Sioux; Elizabeth J. Simpson, St. Joe, clerks (typewriters). G. Willard Jones, forest ranger; Marie Taylor, clerk (stenographer).

DISTRICT 2.—Bernice M. Geddes, Black Hills; Alice G. Judson, Montezuma; Lulu M. Lansing, Pike; Marguerite A. Mulligan, Sopris, clerks (stenographers and typewriters). Ethelwyn Jonés, Cochetopa; Katherine Wagner, Montezuma; Clara I. Smith, Rio Grande, clerks (typewriters). George S. Haynes, Fremont Experiment Station; Walter F. Gilliam, Battlement; John S. Amsden, Clair Vivian Cooke, and Marion J. Webber, Black Hills; James B. Hamilton and John A. Stavely, Cochetopa; Benjamin A. Beezley, Gunnison; Verner Moore and Homer R. Raver, Harney; Guy C. Wallace, Leadville; James Real, jr., Montezuma; Walter C. Armstrong and Karl Gilbert, San Isabel; Frank McDaniel, Harry L. Norris, and Floyd E. Runyan, San Juan; Merrill Snyder, Shoshone; William Doran, Uncompahgre; Bert L. Miller and Felix E. Read, White River, forest rangers. Raymond S. Watrous, surveyor-draftsman; Evelyn Cohen, Frances E. Lowe, and Annie A. Ross, clerks (stenographers and typewriters).

DISTRICT 3.—Harry H. Boyer and Ellis W. Lund, Apache; Carroll R. Dwire, Carson; Walter Hackleman and Charles N. Lochman, Coconino; Elmer A. Staggs, Coronado; John H. Isbester and Calvin H. Warnock, Gila; Eddy E. Hudman, Willard Z. Lyons, Frank F. McLure, Henry G. Smith and Asa E. Messer, Lincoln; George H. Cook and Hubert N. Kimbrough, Manzano; Russell L. Linton and Jack E. Marlowe, Prescott; Roy Cummins and Raymond D. Rowley, Sitgreaves; John A. Frieborn, Tonto; Frank G. Lewis and Frank E. Brennan, Grand Canyon, forest rangers. Mrs. Dora M. Morris, Manzano, and Maude E. Wilson, Fort Valley Experiment Station, forest clerks; Mary T. Timpe, Prescott, clerk (typewriter); Henry A. Robinson, Tonto, unskilled laborer; Paul J. Romero, messenger; Opal H. Silcox, clerk (stenographer and typewriter).

DISTRICT 4.—Seth B. Perry and Henry O. Van Tassell, Ashley; Harry Keller and William E. Perkins, Boise; Albert A. David and Oliver C. Garvin, Bridger; Alvin L. Romero, Caribou; Jesse G. C. Elgan, Challis; William T. Dobson, Kaibab; John L. Phillips, Lemhi; Hamner M. Christensen and Orange A. Olsen, Manti; Roscoe H. Davis, Payette; Josiah E. Hickman, jr., Roy Lee, and Loren Shurtz, Powell; Virgil C. Lamb, Martyn E. Mallory, and Allen T. Osborn, Sawtooth; Walter A. Estep and Fred L. Smith, Teton; Charles H. Allred, Uinta; Le Roy E. Bennauer, Wasatch; Kib P. Cook, Wyoming, forest rangers. Ethel Moore, La Sal, clerk (typewriter); Thomas T. Califro, Toiyabe, clerk (stenographer and typewriter); Amos Lewis, unskilled laborer.

DISTRICT 5.—Anna B. Stephens, Cleveland; Katherine C. Davis, Lassen; Mary E. Anderson, Trinity; Edith M. Gustafson, Florence A.

Henderson, stenographers and typewriters. Joseph Hanf and Fletcher H. Hayward, Angeles, forest rangers; Ynez V. Roussel, messenger.

DISTRICT 6.—Philip H. Dater, district engineer; Edith T. McMurry and Louise Wehtje, forest clerks; Vera V. Schlaefer, clerk (stenographer and typewriter); Letetia V. Wood, clerk; William F. Burge, George S. Case, Charles J. Conover, Benjamin F. Freeman, Lonzo D. Hurt, Carl R. Langdon, James H. McIntosh, Roy Mitchell, Robert E. Nickles, Robert I. Peachey, Riley Warren, Frederick F. Wehmeyer, forest rangers.

DISTRICT 7.—Howard Coberly, Monongahela; George W. Cole and Chas. S. Dunn, Unaka; Ralph McCormick, White Mountains; Henry J. McDowell, Alabama, forest rangers. Ernest J. Mead, Alabama, forest examiner.

PROMOTED IN RANK.

LABORATORY.—Robert P. A. Johnson, surveyor-draftsman to assistant engineer in forest products.

DISTRICT 1.—Glen A. Smith, forest supervisor, Kootenai, to assistant district forester, district office; S. V. Fullaway, jr., Nezperce, forest examiner to forest supervisor; H. L. Baker, deputy forest supervisor, district office, to forest supervisor, Cabinet; W. W. Weber, Deerlodge, forest assistant to deputy forest supervisor; F. W. Beier, jr., forest ranger to deputy forest supervisor; George H. Lautz, surveyor draftsman to district engineer.

DISTRICT 2.—Allen W. Murdock, Arapaho, and Wallace J. Pearce, Colorado, forest assistants to forest examiners. Clarence E. Taylor, Cochetopa; Bernard E. Leete, Harney; Andrew Hutton, Medicine Bow, forest rangers to forest examiners. Charles B. Mack, San Juan, forest ranger to deputy forest supervisor; Robert E. Pratt, surveyor to district engineer; Crosby A. Hoar, deputy forest supervisor to forest examiner.

DISTRICT 3.—Jacob C. Nave, Apache, and Charles L. Rak, Coronado, forest rangers to deputy forest supervisors; Leonard R. Lessel, Coconino, forest ranger to national forest examiner; Robert F. Rhinehart, Coconino, scaler to lumberman; Curry A. Long, surveyor to district engineer.

DISTRICT 4.—Charles DeMoisy, jr., Humboldt, deputy forest supervisor to forest supervisor; Alexander McQueen, Humboldt, forest ranger to deputy forest supervisor; Arthur W. Stevens, Great Basin Experiment Station, forest ranger to grazing assistant.

DISTRICT 5.—J. D. Maxfield, forest ranger, Angeles, to national forest examiner, district office.

DISTRICT 6.—Lewis E. McDaniels and Ralph S. Shelley, deputy forest supervisors to forest supervisors; Harry M. White, forest clerk to national forest inspector; John F. Irwin and Glenn E. Mitchell, forest rangers to deputy forest supervisors.

DISTRICT 7.—Charles N. Hammond, Arkansas, forest ranger to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—J. B. Seely, forest supervisor, Helena, to forest ranger, Bitterroot; Frank F. Liebig, Flathead, scaler to forest ranger; W. P. Hillman, Kaniksu, forest ranger to forest clerk; Wm. L. Baldwin and J. Roy Brownlie, Sioux, forest rangers to forest assistants; B. W. Clark, deputy forest supervisor to forest supervisor.

DISTRICT 2.—Ruth A. Dunnington, Black Hills, and Theresa A. Brady, Leadville, clerks (stenographers and typewriters) to forest clerks.

DISTRICT 3.—Ira K. Cummings, Carson, and John B. Garland, Coronado, forest clerks to forest rangers; Robert Munro, Datil, deputy forest supervisor to national forest examiner.

DISTRICT 4.—Arthur C. McCain, Teton, assistant district forester to forest supervisor; J. Carl Allred, Fillmore, deputy forest supervisor to forest clerk.

DISTRICT 7.—Henry L. Johnson, Monongahela, and Harold L. Russell, White Top, deputy forest supervisors to forest examiners.

RESIGNED.

LANDS.—Bleecker L. Wheeler, national forest examiner.

RESEARCH.—George N. Lamb, W. B. Barrows, and Jesse C. Nellis, forest examiners.

LABORATORY.—Otto Kress, pulp and paper engineer; Lage Wernstedt, forest examiner.

ACQUISITION.—E. D. Clark, forest examiner; B. M. Higginbotham, examiner of surveys.

DISTRICT 1.—George E. Martin, Custer, forest supervisor; J. C. Friend, Absaroka; W. Karl Loughborough, Blackfeet; Philip Neff, Coeur d'Alene; Rufus E. Clay, Perry R. Rogers, Chester A. Simpson, Malcolm K. Kedzie, and David C. Huson, Kootenai; Alfred Grigg, Missoula; James D. Agnew, Selway, forest rangers. Louis Crombie, Coeur d'Alene, scaler; Mark. B. McConnell, Coeur d'Alene, forest clerk; Ruth E. Wilson, Sioux, clerk (stenographer); Ruby E. Tippin, Kaniksu, clerk (stenographer and typewriter); Leon H. Weyl, grazing assistant; H. C. Kuhl, surveyor; Percy S. Gray, clerk.

DISTRICT 2.—Thomas V. Keefe, Montezuma, and Charles L. Cecil, Superior, deputy forest supervisors; Roy Smith, Black Hills, national forest examiner; Richard A. Phillips, Harney; Gerald M. Hunter, Routt, forest examiners. Charles Farr, Bighorn, clerk; Philip A. Maurice, Superior, forest clerk; Frieda M. Gruenstein, Black Hills, and John T. Dugan, Pike, clerks (stenographers and typewriters); M. Linda King, Leadville, clerk (typewriter); Rosalie F. Shields and Annie A. Ross, clerks (stenographers and typewriters); Lewis C. Davis, Arapaho;

Warren T. Pilcher and Albert Wiehe, Black Hills; Eldon W. Hauser, Gunnison; John L. Chase, Medicine Bow; Edwin S. Armentrout, Pike; Marcy M. Meaden, Routt; George B. Kleckner, San Juan; Orrin M. Davis, Shoshone; Elmer Eugene Bascom, Sopris; John M. P. James, Lewis A. Hahn, and D. Kirk Shaw, White River; James P. Reddick, forest rangers. Herman F. Mader, surveyor draftsman.

DISTRICT 3.—William R. Warner, Apache, deputy forest supervisor; William F. Tribe, Coconino, scaler; Grace W. Williamson, Coconino, and Martha S. Stanley, Tusayan, clerks (stenographers and typewriters); Frederick O. Knipe, Coronado; Walter A. Foor, Datil; Walter E. Wetmore, Tusayan, forest rangers. J. Wilbur O'Byrne, Lincoln, forest examiner; James Sullivan, Tonto, unskilled laborer; Andrew J. Loftus, Fort Valley Experiment Station, forest clerk; Harry M. Frank, clerk; Charles E. Lippert, draftman (copyist-topographic); Murrell W. Talbot, grazing examiner; Lena Wind, clerk (stenographer and typewriter).

DISTRICT 4.—Charles T. Gray, Boise; Frank M. Butler, Caribou; Howard W. Balsley, La Sal; Julius G. Maelzer, Lemhi; Francis M. Cox, jr., Manti; Lawrence G. Wallace, Minidoka; Thomas A. Jerrell and Baron L. Oborn, Salmon; Ray Ivie, Sawtooth; Ira C. Lambert, Wasatch; James S. Hite, Weiser; Alfred C. Toland, Wyoming; Walter E. Hanks, Powell, forest rangers. Robert E. Miller, Teton, forest supervisor; Lawrence J. Palmer, Cache, grazing examiner; William L. Brett, Fillmore, and Herbert L. Cox, Toiyabe, forest clerks; James Nelson, supply depot, unskilled laborer; John F. Purdy, messenger boy; John E. Salter, blue printer; Charles P. Calvert, surveyor draftsman; Norman K. Olmsted, forest ranger; Bryant S. Martineau, grazing examiner.

DISTRICT 5.—Winford Frank Bates and Evan A. Joy, Angeles; Walter H. Coupe, Lassen; James F. Poore, Modoc; Paul C. Thayer, Plumas; John N. Lindsey and Lester O. Ames, Stanislaus; Arthur W. Phillips, Sequoia; George H. Cory, Shasta; George M. Noyes, Tahoe, forest rangers. Frank B. Cayot, Plumas, and William A. Merrill, Tahoe, deputy forest supervisors; Tipton E. Evans, Sequoia, forest clerk; E. B. Long, Shasta, lumberman; Charles H. Ensign, Shasta, scaler; Kenneth L. Hosack and Phillip Liff, messengers.

DISTRICT 6.—Martin L. Erickson, forest supervisor; Dexter B. Reynolds, deputy forest supervisor; Ruth M. Borland and Ida E. Ringstedt, clerks (stenographers and typewriters); Robert W. Douglas, forest clerk; Woodford H. Babbitt, Ulva F. Collins, Axel W. Erickson, Oliver W. Johnston, Otto G. King, Frank W. Mattson, Clifton C. McGuire, Joseph Ridley, Jason P. Williams, forest rangers; George H. Sullivan, gas engineer; John W. S. Todd, messenger.

DISTRICT 7.—James D. Ruble, Alabama, forest ranger.

DISMISSED.

DISTRICT 6.—Edward H. Mahn, forest ranger.

With deep regret announcement is made of the death of Erma F. Bell, clerk, district 3, April 22; Mrs. Lilian Van Rancke, translator, Washington office, May 5; Charles R. Cressy, assistant chemist in forest products, Madison Laboratory, April 11; Nicholaus Schaub, unskilled laborer, Madison Laboratory, May 17, 1918.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 48.

Incorporation of Branch of Operation Into Office of the Forester—

The Branch of Operation is by this order incorporated into the Office of the Forester. All Operation letters in the nature of instructions will be signed by the Forester or Acting Forester. Other letters of the character ordinarily signed by the chief of Branch will be signed by the Acting Forester. Routine correspondence by other members of the office will be signed over their own official titles. The present subject designations in correspondence will be retained.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

State of Montana *v.* Dr. E. M. Bates: Fire trespass, criminal, Kootenai National Forest. Case dismissed under order district judge, who held that the new Montana fire law repealed the old law which was in effect at the time of the Bates trespass. Case closed April 6, 1918.

State of Montana *v.* Henry Crippen and Ed Hughes: Fire trespass, criminal, Kootenai National Forest. Case closed upon suggestion of county attorney, who stated that he did not consider the information at hand sufficient to warrant prosecution.

United States *v.* John Inabnit: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $98.10, value of forage consumed.

United States *v.* Nelson Story, jr.: Grazing trespass, civil, Gallatin National Forest. Case closed upon payment of $16.28, value of forage consumed.

United States *v.* William Zosel et al.: Grazing trespass, civil, Helena National Forest. Case set to be heard at Helena, June 17. Before case was called for hearing Zosel agreed to comply with the wishes of the Forest Service.

Law Cases in District 2—

United States *v.* Matthew Wood: Occupancy trespass, Black Hills National Forest. Case closed on payment of $6.25 damages and issuance of permit for use of land.

United States *v.* Carbon Timber Co. and Elk Mountain Mercantile Co.: Fire trespass, Medicine Bow National Forest. December 21, 1916, judgment secured against Elk Mountain Mercantile Co. for $22,076.46. Court refused to allow $527.29 representing salaries of forest officers while employed in extinguishing fire. January 31, 1917, complaint filed against Frank C. Hunter, trustee in bankruptcy for Elk Mountain Mercantile Co., to enjoin disposition of company's assets until priority of United States claim was determined. September 14, 1917, court dismissed Government's bill holding it had no right to priority with respect to this claim. Case closed upon notice from Solicitor General that no appeal would be filed.

United States *v.* Matthew Riley & Sons: Grazing trespass, Harney National Forest. Case closed upon payment of damages in full, amounting to $41.72.

United States *v.* Mrs. D. May Saunders: Grazing trespass, Holy Cross National Forest. Case closed upon payment of damages in full, amounting to $74.50.

United States *v.* C. R. Sowards: Grazing trespass, Harney National Forest. Case closed on advice from forest supervisor that defendant had no funds to pay the damages, which amounted to $23.23.

United States *v.* L. C. Sharpe: Grazing trespass, Gunnison National Forest. Case closed on payment of damages in full, amounting to $3.06.

United States *v.* Alfred Thorndale: Occupancy trespass, Leadville National Forest. Case closed on payment of damages in full, amounting to $17.92.

United States *v.* Henrylyn Irrigation District, Inter-Mountain Water Co., and J. A. McIlwee: Occupancy trespass, Colorado National Forest (formerly Pike). Case dismissed April 12, 1918, upon instructions from the United States Attorney General.

United States *v.* Carbon Timber Co., R. D. Meyer and Andrew Olsen, trustees: Timber trespass, Hayden National Forest. December 21, 1916, judgment secured against Carbon Timber Co. in the sum of $2,624.15, with interest in the sum of $1,883.55; total, $4,507.70; together with costs. February 28, 1917, upon petition of United States, court ordered Meyer and Olsen, trustees for Carbon Timber Co., to set aside the sum of $4,907,70, to await further orders of the court respecting payment of Government's judgment. November 28, 1917, Government filed bill of complaint to establish priority of Government's claim under section 3466, Revised Statutes. June 19, 1918, upon hearing of case, court found Government entitled to priority, and ordered and decreed that the trustees pay the judgment, together with interest from De-

cember 21, 1916, ahead of all other claims against the company, except the claim of American Surety Co., New York.

United States *v.* A. I. Lindsay: Fire trespass, civil, San Isabel National Forest. Case tried June 4. Jury found in favor of defendant.

Law Cases in District 3—

United States *v.* M. C. Smith: Grazing trespass, Tusayan National Forest. Case closed on payment of $12.50, actual damages.

United States *v.* estate of J. L. Hittson: Grazing trespass, Tusayan National Forest. Case closed on payment of $18, actual damages.

United States *v.* Cruz Eraso: Grazing trespass, Prescott National Forest. Case closed on payment of $61, actual damages.

United States *v.* Clarence Hancock: Grazing trespass, Tonto National Forest. Case closed on payment of $51, actual damages.

United States *v.* John H. Sargent: Grazing trespass, Carson National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* W. T. Duke: Grazing trespass, Tonto National Forest. Case closed on payment of $90 actual and $50 punitive damages.

United States *v.* Sears-Kay Cattle Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $1,875, actual damages.

United States *v.* Jordon & Ortiz: Grazing trespass, Carson National Forest. Case closed on payment of $200, actual damages.

United States *v.* J. H. Morgan: Grazing trespass, Tusayan National Forest. Case closed on payment of $16, actual damages.

United States *v.* McLaughlin & Albrecht: Grazing trespass, Apache National Forest. Case closed on payment of $12.50, actual damages.

United States *v.* J. J. Filleman: Grazing trespass, Apache National Forest. Case closed on payment of $152.50, actual damages.

United States *v.* Elrage, Elrage & Swift: Grazing trespass, Apache National Forest. Case closed on payment of $215, actual damages.

United States *v.* Mrs. Chas. Pepper: Grazing trespass, Coronado National Forest. Case closed on payment of $21.25, actual damages.

United States *v.* Miguel Egurrola: Grazing trespass, Coronado National Forest. Case closed on payment of $277.50, actual damages.

United States *v.* A. H. Slaughter: Grazing trespass, Apache National Forest. Case closed on payment of $267.50, actual damages.

United States *v.* Dickie & Shellhorn: Grazing trespass, Gila National Forest. Case closed on payment of $104.50, actual damages.

United States *v.* Mrs. Syl Gamblin: Grazing trespass, Gila National Forest. Case closed on payment of $11.50, actual damages.

United States *v.* Colin Campbell: Grazing trespass, Tusayan National Forest. Case closed on payment of $73.75, actual damages.

United States *v.* Richard Kunde: Grazing trespass, Coronado National Forest. Case closed on payment of $53.25, actual damages.

United States *v.* Arthur H. Noon: Grazing trespass, Coronado National Forest. Case closed on payment of $360.75, actual damages.

United States *v.* Fred C. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of $3.50, actual damages.

United States *v.* Julio Sancet: Grazing trespass, Prescott National Forest. Case closed on payment of $1.30, actual damages.

United States *v.* Fred Ortiz: Grazing trespass, Carson National Forest. Case closed on payment of $15.84, actual damages.

United States *v.* Harland Walker: Grazing trespass, Apache National Forest. Case closed on payment of $21.25, actual damages.

United States *v.* Drumm & Wilson: Grazing trespass, Apache National Forest. Case closed on payment of $11.25, actual damages.

United States *v.* Waide Harris: Grazing trespass, Apache National Forest. Case closed on payment of $142.50, actual damages.

United States *v.* Johnson & Shannon: Grazing trespass, Apache National Forest. Case closed on payment of $111.25, actual damages.

United States *v.* R. R. Miller: Grazing trespass, Apache National Forest. Case closed on payment of $282.50, actual damages.

United States *v.* Nicks & Tucker: Grazing trespass, Apache National Forest. Case closed on payment of $58.75, actual damages.

United States *v.* Bailey & Harris: Grazing trespass, Apache National Forest. Case closed on payment of $421.25, actual damages.

United States *v.* Double Circle Cattle Co.: Grazing trespass, Apache National Forest. Case closed on payment of $360, actual damages.

United States *v.* Griffith Jenkins: Grazing trespass, Coronado National Forest. Case closed on payment of $88.80, actual damages.

United States *v.* E. Moyza: Grazing trespass, Coronado National Forest. Case closed on payment of $22.20, actual damages.

United States *v.* Clarke & Carnes: Grazing trespass, Coronado National Forest. Case closed on payment of $31.25, actual damages.

United States *v.* P. M. Clarke: Grazing trespass, Coronado National Forest. Case closed on payment of $53.65, actual damages.

United States *v.* Garcia Bros.: Grazing trespass, Coronado National Forest. Case closed on payment of $185, actual damages.

United States *v.* J. O. Brown: Grazing trespass, Apache National Forest. Case closed on payment of $26.25, actual damages.

United States *v.* J. L. Shellhorn: Grazing trespass, Gila National Forest. Case closed on payment of $75.13, actual damages.

United States *v.* Mrs. R. B. Wilbur: Grazing trespass, Coronado National Forest. Case closed on payment of $351.50, actual damages.

United States *v.* William M. Tate: Grazing trespass, Gila National Forest. Case closed on payment of $29.75, actual damages.

United States *v.* J. D. Newman: Grazing trespass, Prescott National Forest. Case closed on payment of $22.40, actual damages.

United States *v.* Mrs. James B. Gamble: Grazing trespass, Coronado National Forest. Case closed on payment of $15.75, actual damages.

United States *v.* John Hennessy: Grazing trespass, Prescott National Forest. Case closed on payment of $24, actual damages.

United States *v.* Babbitt & Hennessy: Grazing trespass, Prescott National Forest. Case closed on payment of $9.54, actual damages.

United States *v.* James Trainor: Grazing trespass, Apache National Forest. Case closed on payment of $16.25, actual damages.

United States *v.* Arivaca Land and Cattle Co.: Grazing trespass, Coronado National Forest. Case closed on payment of $1,295, actual damages.

United States *v.* T. B. McCullouch: Grazing trespass, Apache National Forest. Case closed on payment of $35, actual damages.

United States *v.* Young & Wilkins: Grazing trespass, Prescott National Forest. Case closed on payment of $1,050, actual damages.

United States *v.* Enrique Archuleta: Fire trespass, Santa Fe National Forest. Case closed on payment of $19, actual damages.

United States *v.* T. B. Longwell: Corner removal, Lincoln National Forest. Trial by jury, and verdict of acquittal. Criminal prosecution on recommendation chief of field division.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Grand Canyon, Cape Horn Lode. Decision by Circuit Court of Appeals sustaining injunction against further occupancy and requiring removal of buildings.

State of New Mexico *v.* A. W. Snyder: Fire trespass, Lincoln National Forest. Indicted for arson in setting fire to boarding cars, plea of guilty, and sentenced to three years in the penitentiary.

United States *v.* Epifanio Ortiz: Grazing trespass, Apache National Forest. Hearing on contempt proceedings, and case under advisement.

United States *v.* Theo. Cannard: Occupancy trespass, Carson National Forest. Hearing on contempt proceedings, and defendant given another opportunity to remove fence.

United States *v.* Fred Howard: Grazing trespass, Manzano National Forest. Default entered.

United States *v.* S. J. Hines: Occupancy trespass, Tonto National Forest. Default entered.

United States *v.* M. D. Rawls: Occupancy trespass, Lincoln National Forest. Information dismissed by United States attorney after removal of occupancy.

United States *v.* Joe Bruno & Anthony B. Tocco: Grazing trespass, Crook National Forest. Criminal proceedings dismissed by United States attorney on recommendation of Forest Service after Bruno had left the country.

United States *v.* John Hackney: Timber trespass, Gila National Forest. Information filed, plea of guilty, and defendant fined $25 and costs amounting to $70.

State of New Mexico *v.* Juan W. Carrejo: Datil National Forest. Preliminary hearing, and Ranger Carrejo bound over to the State grand jury on a technical charge of murder. Shooting occurred while the ranger was assisting State officers in making an arrest for cattle steal-

ing. Two men were killed, and the third will be tried for cattle stealing before further action in the murder case.

United States *v.* Martina Sena et al.: Occupancy trespass, Santa Fe National Forest. Complaint in ejectment filed.

United States *v.* Gasper Suarez: Grazing trespass, Prescott National Forest. Defendant arrested and bound over on preliminary hearing by the United States commissioner.

United States *v.* Antonio Suarez: Grazing trespass, Prescott National Forest. Defendant arrested, and bound over on preliminary hearing by the United States commissioner.

United States *v.* Martin E. Echenique: Grazing trespass, Prescott National Forest. Defendant arrested and bound over on preliminary hearing by the United States Commissioner.

United States *v.* Jose Echenique: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Valentin Aja: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

Law Cases in District 4—

United States *v.* Grant Carpenter: Grazing trespass, Ashley National Forest. Case closed on payment of $8.80, actual damages.

United States *v.* Alfred Johnson: Grazing trespass, Ashley National Forest. Case closed on payment of $4.32, actual damages.

United States *v.* Casper Hein: Grazing trespass, Boise National Forest. Case closed on payment of $117.40, actual damages.

United States *v.* John Echevarria: Grazing trespass, Boise National Forest. Case closed on payment of $24, actual damages.

United States *v.* K. D. Houtz: Grazing trespass, Cache National Forest. Case closed on payment of $40, actual damages.

United States *v.* Moroni Monroe: Grazing trespass, Fillmore National Forest. Case closed on payment of $10, actual damages.

United States *v.* William E. Tracy: Grazing trespass, Minidoka National Forest. Case closed on payment of $19.80, actual damages.

Law Cases in District 5—

United States *v.* W. B. Spurlock: Grazing trespass, Trinity National Forest. Payment of $54, in full settlement, received and case closed.

United States *v.* Symons Bros.: Grazing trespass, Mono National Forest. Payment of $56 received and case closed.

United States *v.* E. W. Leininger: Grazing trespass, Lassen National Forest. Payment of $19.50 received and case closed.

United States *v.* Perry McDaniel: Grazing trespass, Modoc National Forest. Defendant plead guilty and was fined $100 by the district judge.

United States *v.* Oscar Hotchkiss: Grazing trespass, Modoc National Forest (3 cases). Settlement in full made by defendant—$153.50 and $3.50 costs.

United States *v.* San Pedro, Los Angeles & Salt Lake Railroad Co.: Fire trespass, Angeles National Forest. The amount offered in settlement of this case ($1,150) was paid in full.

United States *v.* San Jacinto Box and Lumber Co.: Fire trespass, Cleveland National Forest. The sum of $653.90 accepted in settlement and case closed. Total amount of judgment was $710.22 and costs.

Law Cases in District 6—

United States *v.* Jake S. McCown: Contempt of court. Oregon National Forest. On June 4 the defendant appeared before the United States District Court on the citation for contempt of the permanent injunction prohibiting him from allowing his cattle to graze on the Oregon National Forest. The court adjudged him guilty and fined him $50 and costs; total, about $92.50.

United States *v.* Pat Healy: Grazing trespass, Whitman National Forest. Case closed June 25, on payment of $35.15, actual damage, and $50 punitive damages.

United States *v.* B. F. Owenby: Grazing trespass, Wallowa National Forest. Case closed on June 25 on payment of $12.50 actual damage.

United States *v.* A. E. Penney: Grazing trespass, Ranier National Forest. Civil case closed May 27 on payment of $12.66 actual damage. Criminal action still pending.

United States *v.* Chas. Lindsay: Grazing trespass, Crater National Forest. Case closed April 15 on payment of $12, actual damage, and $50 punitive damages.

United States *v.* Conroy and Manning: Grazing trespass, Malheur National Forest. Case closed April 20 on payment of $54.52, actual damage, and $50 punitive damages.

United States v. W. H. Harris: Grazing trespass, Oregon National Forest. Indictment dismissed April 5 on recommendation of Forest Service after settlement of civil damages amounting to $250. Case closed.

United States *v.* Eugene and Emma Engles Crane. Occupancy trespass, Washington National Forest. Writ of possession granted by United States District Court for the western district of Washington April 8, and on April 11 the trespassers were ejected from the land by deputy United States marshal.

United States *v.* Reliance Lumber Co.: Fire trespass, Ranier National Forest. Referred to the Department of Justice for institution of suit to collect $2,218.75, May 15.

United States *v.* J. W. O'Keeffee: Grazing trespass, Fremont National Forest. Case closed May 9 on payment of $95, actual damage, and $50 punitive damage, with interest and costs; total, $225.

United States *v.* George A. Hempe: Timber trespass, Minam National Forest. Case closed April 17 on payment of $32.04 actual damage.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 606.—Relative Resistance of Various Hardwoods to Injection with Creosote.

Department Bulletin 638.—Forestry and Community Development.

Department Bulletin 673.—Production of Lumber, Lath, and Shingles in 1916.

Department Bulletin 675.—Range Preservation and Its Relation to Erosion Control on Western Grazing Lands.

Unnumbered Publication.—The Use Book, 1918.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1918

No. 15. Issued October 15, 1918.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

October Field Program 1918

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.
WILLIAM L. HALL, Assistant Forester.
E. A. SHERMAN, Assistant Forester.

A. O. WAHA, forest inspector.
G. G. ANDERSON, assistant to the Forester.
MAINTENANCE.—BILLIE I. SHANNON, in charge.
STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS, in charge.
SUPPLIES.—S. L. MCLAURIN, property clerk.
EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.
SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.
PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, assistant forester, in charge; CLINTON G. SMITH, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; A. B. Hastings, acting State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; ———, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, acting in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.
LAND CLASSIFICATION.—JOHN D. JONES, in charge.
SETTLEMENT.—F. L. HARVEY, in charge.
BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.
STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant; ELERS KOCH, forest supervisor, on detail.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relation Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—J. W. STOKES, on detail.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.)—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; John A. Jess, consulting engineer; Don P. Johnson, assistant district forester; P. R. Hicks, engineer in forest products; Oscar M. Wold, fiscal agent; Charles P. Juckem, executive clerk.

Commercial extension.—Rolf Thelen (on detail, Washington office).

Review of results.—Ray C. Tuttle, acting in charge.

ENGINEERING.—F. E. BONNER, in charge; B. L. Nelson, J. B. Yule, H. T. Burgess.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, H. M. Mayo, G. W. Blanco, D. E. Cable.

Lumber studies.—Henry J. Hegel, in charge; D. G. White, W. W. Morris.

PULP AND PAPER.— ———, in charge; H. E. Surface (on detail, Washington office), Sidney D. Wells, V. P. Edwardes.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, J. S. Mathewson, J. O. Bixby.

Timber Tests.—G. E. Heck, in charge; H. S. Grepo'le, Armin Elmendorf, J. R. Watkins, W. S. Broome, R. E. Johnston, C. E. Dennis, H. J. Rosenthal, C. A. Plaskett, R. F. Luxford, L. A. Welo, E. D. Fahlberg, R. P. A. Johnson, W. S. Wilder, G. M. Griffith, C. H. Clevenger, J. N. Jensen.

Airplane Tests.—Prof. E. R. Maurer, in charge; C. B. Norris, Hobart D. Frary, Rufus Crane, E. P. Johnson, J. A. Hanson, Tower W. King, Frank C. Milliman.

Box Design.—Henry J. Hegel, in charge of laboratory tests; Don L. Quinn, in charge of field studies; L. R. Morris, R. B. Quincy, J. B. Frear, H. M. Hale, A. F. McDuffie, L. P. Elliott, A. J. De Smidt, H. N. Pettibone.

TIMBER PHYSICS.—FRANK J. HALLAUER, in charge; A. Koehler, C. A. Kupfer, Eloise Gerry, M. E. Diemer, Gertrude Griffin, C. W. Gould, James D. Studley, M. C. Jensen, Thos. R. Stoltenberg, C. V. Sweet, Lawrence V. Teesdale, D. R. Brewster, J. L. Brownlee, Nils P. Eckbo.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt. Matthew E. Dunlap, Olenus L. Sponsler, Shirley W. Allen, S. B. Henning, Samuel Schwartz, Alfred C. Lindauer, Frederick L. Browne, Samuel Butterman, Melville H. Price, Edward P. Devlin, T. R. Truax, R. A. Colgan.

Propeller Manufacture.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, E. F. Horn.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge; ROLF THELEN, on detail.

STUDIES.—J. T. Harris and Harry P. Burden.

USES OF WOODS.—W. D. Brush.

WOOD-WASTE EXCHANGE.—R. K. Helphenstine, jr.

LUMBER INDUSTRY STUDY.—R. C. Bryant, East; F. E. Olmsted, West.

FIELD INVESTIGATIONS.—E. N. Munns, W. H. Weber, E. H. Frothingham, K. McR. Clark, P. S. Lovejoy.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, Albert H. Pierson. Collaborator: A. B. Strough, Albany, N. Y.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—L. A. WHITSIT, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge (temporarily on detail to the Forest Products Laboratory); C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER (on detail to Madison laboratory).

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge, Washington, D. C.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham,

N. H.; George W. Marshall, Clayton, Ga. Forest examiners: White Mountain Area, H. S. Davis, Gorham, N. H.; Shenandoah Area, S. H. Thompson, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, R. J. Noyes and party, Marion, N. C.; Savannah Area, W. J. Damtoft (in charge of party), Clayton, Ga.; Alabama Area, E. J. Meade (in charge of party), Moulton, Ala.

SURVEY OF LANDS.—Harold G. Wood, national forest examiner (on detail to War Industries Board), Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Carl F. Muzzey, Harrisonburg, Va.; Nantahala Area, J. W. Fox, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Pisgah Area, James Denman and W. N. Sloan, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Biltmore, N. C.; John W. Van Hoy, Marion, N. C.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester; C. L. BILLINGS, lumberman.

LOGGING ENGINEERING.—J. W. GIRARD, logging engineer.

TIMBER SALES.—C. B. BAKER, administrative assistant. Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.— ———

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester; BURR W. CLARK, executive assistant.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE and E. D. GARDNER, mineral examiners.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.— ———.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. A. Dahlgren, lumberman; James H. Hull, forest examiner.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); F. J. Jefferson, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); A. M. Baum, deputy forest supervisor.

Beaverhead. —J. B. SOMERS, forest supervisor, Dillon (WU); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU).

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P); W. W. Weber, deputy forest supervisor; W. C. Latane, forest examiner.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, deputy forest supervisor; H. R. Flint, forest examiner, timber sales.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU); A. H. Abbott, deputy forest supervisor.

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU).

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU); W. J. Derrick, deputy forest supervisor.

Kootenai.—C. M. STEVENS, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).

Lolo.—W. W. WHITE, forest supervisor, Missoula (WU, P).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU).

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P).

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

Kaniksu.— ———, forest supervisor, Newport, Wash. (WU via Priest River–Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; W. I. HUTCHINSON, information and recreation.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer; W. I. HUTCHINSON, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forester examiner in charge; EARL B. TANNER, logging engineer.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.—R. E. PRATT, district engineer.

MAPS AND SURVEYS.—R. E. PRATT, in charge.

Drafting.—H. C. ORPEN.

Entry Surveys.—W. C. CAMPBELL.

ROADS.—R. E. PRATT, in charge.

WATER POWER.—A. G. LINCOLN, hydroelectrical engineer.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapahoe.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU); Allen W. Murdock, forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); Wallace J. Pearce, deputy forest supervisor.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU); Percy T. Smith, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); Peter Keplinger, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P); Carl M. Stanley, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU); A. L. Richey, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—A. F. C. HOFFMAN, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU); Willard C. Hassel, forest examiner.

Uncompahgre.—J. W. LOWELL, Jr., forest supervisor, Delta (WU); Harold L. Borden, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery, H. H. Richmond, forest examiner, in charge.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); William Wiehe, deputy forest supervisor; L. E. Hitchcock, forest examiner; Earl W. Tinker, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P); Robert H. Easterbrooks, forest examiner.

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Louis E. Coughlin, deputy forest supervisor; Andrew Hutton, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Landor (WU).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; WARD SHEPARD, forest examiner, educational cooperation, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). MORTON M. CHENEY, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—WARD SHEPARD, forest examiner, assistant in operation.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification; REX KING, forest examiner.

ENGINEERING.—C. A. LONG, district engineer.
MAPS AND SURVEYS.—LEE C. DAVES, in charge.
Drafting.— ———.
Entry Surveys.—FRANK D. YOST, surveyor.
ROADS.—C. A. LONG, in charge.
WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P).

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P); Lorenzo B. Maxwell, deputy forest supervisor; Leonard R. Lessel and James W. Girdner, national forest examiners.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P); Kenner C. Kartchner, deputy forest supervisor.

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams; Francis L. W. Grubb, deputy forest supervisor (WU, P).

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, forest supervisor, Grand Canyon (P).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU); Edward P. Ancona, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; L. R. De Camp, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor. Fort Bayard Nursery, Herman Krauch, forest examiner.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JAMES E. SCOTT, national forest inspector; ELMER C. ROSS, telephone construction.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, D. A. SHOEMAKER, and T. B. NICHOLS, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.
Cache.—See Utah.
Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU); G. G. Henderson, deputy forest supervisor.
Challis.—DAVID LAING, forest supervisor, Challis (WU).
Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P); Clinton M. Mangun, deputy forest supervisor.
Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).
Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, forest examiner (on detail, Washington office).
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.
Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.
Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU); Leslie E. Dodge, deputy forest supervisor.
Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—CHAS. DEMOISY, Jr., forest supervisor, Elko (WU); Alexander McQueen, deputy forest supervisor.
Nevada.—F. L. MOTT, forest supervisor, Ely (WU).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Raymond D. Garver, deputy forest supervisor.
Dixie.—WM. M. MACE, forest supervisor, St. George (WU).

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU).
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor. Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

ROY HEADLEY, acting district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—CLARENCE WILEY, national forest inspector, in charge.

TELEPHONE ENGINEERING.—FREDERICK H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING.—STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—J. C. DORT, acting district engineer.

MAPS AND SURVEYS.—J. C. DORT, in charge.

Drafting.—R. E. L. BORGFELDT.

ROADS.—J. C. DORT, in charge.

WATER POWER.—J. C. DORT, in charge.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Willows (WU–Exp. via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, Escondido (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Bakersfield (WU); George W. Lyons, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant–Exp. via Friant); J. V. Wulff, lumberman.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU).

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector; W. B. OSBORNE, Jr., and H. L. PLUMB, forest examiners.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, T. J. STARKER, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL, forest examiner.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner; ASHER IRELAND and T. M. TALBOTT, assistants.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT and E. R. JOHNSON, surveyors.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor; WM. RYLE TEED, national forest examiner.

ENGINEERING.—P. H. DATER, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—R. H. ROBERTSON.

Surveys.—CECIL A. LORD.

WATER POWER.—R. R. RANDELL.

PRODUCTS.—L. A. NELSON, logging engineer, in charge.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); Thomas M. Hunt, forest supervisor, Seward (WU, P).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton and John C. Kuhns, grazing examiners.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P); H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); C. T. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; T. J. Starker, George L. Drake, and A. R. Wilcox, forest examiners; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MacDaniels, forest supervisor, Chelan (PT & T–Exp. via Wenatchee).

Columbia.—F. H. Brundage, forest supervisor, Portland, Oreg. (WU, P).

Colville.—C. C. Reid, forest supervisor, Republic (WU, P); F. W. Cleator, deputy forest supervisor.

Okanogan.—P. T. Harris, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. Fromme, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; E. J. Hanzlik and O. F. Ericson, forest examiners.

Rainier.—G. F. Allen, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg; forest examiner.

Snoqualmie.—Stanton G. Smith, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. Park, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

Wenaha.—L. E. McDaniels, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. Sylvester, forest supervisor, Leavenworth (WU).

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

ACCOUNTS.—J. H. Kerrick, district fiscal agent.

OPERATION.—H. O. Stabler, assistant district forester.

SILVICULTURE.—F. W. Reed, assistant district forester.

GRAZING.—F. W. Reed, assistant district forester.

LANDS.—F. W. Reed, assistant district forester; W. F. Hill, land classification.

ENGINEERING.—H. O. Stabler, assistant district forester, R. C. Huey, roads.

NATIONAL FORESTS.

ALABAMA.

Alabama.—E. J. Mead, forest examiner, in charge, Moulton.

ARKANSAS.

Arkansas.—JOHN L. COBBS, Jr., forest supervisor, Hot Springs (WU, P); C. N. Hammond, deputy forest supervisor.
Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Blue Ridge (WU, P).
Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton (WU, P).

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P).

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—RUDOLPH DIEFFENBACH, forest supervisor, Asheville (WU, P); J. ST. J. BENEDICT, forest examiner, timber sales.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See Georgia.

TENNESSEE.

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest examiner in charge, Johnson City (WU, P); E. P. Bushnell, forest examiner, timber sales.

Cherokee.—See Georgia.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P).

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

FORESTER.—Daniel D. Bronson, general inspector.

ACQUISITION.—Charles E. Beaumont, forest examiner; George F. Greenleaf, forest assistant; Walter H. Sullivan, examiner of surveys; Arthur A. Reimer, Rezin E. Pidgeon, transitmen; Everett B. Stone, jr., assistant forest ranger.

ENGINEERING.—Rolla R. Sabine, draftsman.

LABORATORY.—Francis S. Gombar, Herbert L. Dohr, Saul S. Switzky, laboratory helpers; Otto R. Stadelman, Lynn L. Lillesand, computing clerks.

DISTRICT 1.—Guy M. Brandborg, Helena; C. F. Martineau, jr., Lewis and Clark; R. N. Cunningham, Nezperce; Francis W. Horrigan, Missoula; Harry G. Ade, forest rangers. E. D. Crittenden, St. Joe, scaler; Herbert W. Johnston, grazing assistant; Harold G. Townsend, draftsman (surveyor).

DISTRICT 2.—John A. Lubbe, Nebraska, forest clerk; Clair V. Cooke, Black Hills; Richard R. Riggs, Hayden; Edward H. Stickney, Michigan; Harry L. Norris, San Juan; Merrill Snyder and Clifford C. Spencer, Shoshone, forest rangers. Herbert F. Hedge, draftsman (copyist, topographic).

DISTRICT 3.—George L. Beckwith, clerk (stenographer and typewriter); Frank E. Washburn, draftsman (copyist, topographic).

DISTRICT 4.—Walter Berry, Boise; Harry A. Cheesman, Bridger; Virgil C. Lamb, Sawtooth; Bruce L. Coulter and Walter A. Estep, Teton; Clarence D. Huestis, Weiser, forest rangers. Charles E. Russell, Boise; Harrold C. Haglund, Idaho; Howard J. Stratford, Minidoka; Loren Shurtz, Powell; John A. O'Connell, Salmon; Lewis R. Walgren, Sowtooth, forest clerks. Edmund B. Spencer, Cache, deputy forest supervisor; Hamner M. Christensen, Manti, ranger clerk.

DISTRICT 5.—Frederick H. Fowler, district engineer; Claude W. Sopp, junior engineer.

DISTRICT 6.—Frederic V. Bradford, Clyde A. Nettleton, Paul W. Robbins, and Clifford W. Welty, forest rangers. Mont V. Livingston, clerk.

DISTRICT 7.—Julius G. Siler, Savannah; Tollie T. Hall, Arkansas; John W. Crisman, Shenandoah; Howard Coberly, Monongahela; Troy A. Simpkins, Wichita, forest rangers. Thomas E. Huffman, Natural Bridge, clerk.

APPOINTED.

LABORATORY.—John A. Jess, consulting engineer; Herman N. Pettibone, box inspector; Lawrence V. Teesdale, architectural assistant in forest products; William S. Broome, Ernest D. Fahlberg, Ralph E. Johnston, Ronald F. Luxford, Charles B. Norris, Harry J. Rosenthal.

Samuel Schwartz, Louis Seutter, E. Page Tracy, James R. Watkins, Willard S. Wilder, Raymond M. Wirka, assistant engineers in forest products.

DISTRICT 1.—Bertha F. Wachter, Coeur d'Alene; Eva Anderson, clerks (typewriters).

DISTRICT 2.—Cora L. Jorgensen, Leadville, clerk (typewriter); Helen Haller, Medicine Bow, clerk (stenographer and typewriter); Cedric F. Morey, Michigan, forest ranger. Mrs. Anna Clover and Gertrude M. Hampson, clerks (stenographers and typewriters); Olive Hensley, clerk (typewriter).

DISTRICT 3.—Grace Love, Apache, clerk (typewriter); Lewis W. Lynch, Carson, forest ranger; Luise C. Lieser, Datil, forest clerk; Willard M. Drake, Lincoln, forest examiner. Mrs. Edna Rogers Hyre, clerk (stenographer); Berenice M. Palmer, clerk (typewriter); Mrs. Laurine Raike, clerk (stenographer and typewriter).

DISTRICT 4.—Marion Berlin, Humboldt; Ruth S. Morris, Toiyabe, clerks (stenographers and typewriters). Wallace S. Averill, Weiser, forest ranger.

DISTRICT 5.—Charles O. Leonard, Modoc; John H. Sanborn, Angeles; Archie W. Hughes, Eldorado; Leon J. Cranston and Ray Stevenson, Sequoia; Frank E. Dunne, Santa Barbara; Creston L. Boothe, Sierra, forest rangers. Catherine V. Davies, clerk (stenographer and typewriter).

DISTRICT 6.—Oscar F. Bergman, William D. Foreman, Stanley A. Barton, Dewey E. Gilman, forest rangers. Mae L. Thomas, Helen V. Weeks, Maude Sheidler, Jane L. Curtis, Mrs. Hannah K. Dunham, clerks (stenographers and typewriters). Harold M. Schusler, clerk (typewriter).

PROMOTED IN RANK.

RESEARCH.—Georgia E. Wharton, clerk to assistant in forest distribution; Rufus K. Helphenstine, jr., clerk to statistician in forest products.

LABORATORY.—Oscar M. Wold, clerk to fiscal agent; Arthur Koehler, xylotomist to specialist in wood structure; Joseph W. Collette, clerk to property custodian.

DISTRICT 1.—H. R. Flint, Flathead, forest assistant to forest examiner.

DISTRICT 2.—William R. Fraser, Durango, deputy forest supervisor to forest supervisor; Wallace J. Pearce, Colorado, forest examiner to deputy forest supervisor; Alve L. Richey, Routt, forest ranger to deputy forest supervisor; Louis E. Coughlin, Medicine Bow, forest clerk to deputy forest supervisor; Robert H. Easterbrooks, Hayden; Charles Steuart, Montezuma; Willard C. Hassel, Sopris; Robert G. Schreck, Superior, forest rangers to forest examiners.

DISTRICT 3.—Claude W. McKenzie, Coconino, forest ranger to deputy forest supervisor; Earl W. Loveridge, Santa Fe, deputy forest super-

visor to forest supervisor; Chester V. Christensen, Tusayan, forest ranger to deputy forest supervisor; Paul Henley Roberts, grazing examiner to inspector of grazing; Otto P. Schoenberg, forest ranger to national forest examiner.

DISTRICT 4.—Raymond D. Garver, Cache, forest examiner to deputy forest supervisor; James E. Scott, clerk to national forest inspector.

DISTRICT 6.—Daniel F. Brennan, clerk to deputy forest supervisor; H. Lansing Plumb, forest assistant to forest examiner; Christ Morgenroth, forest ranger to deputy forest supervisor; Robert J. O'Farrell, forest ranger to scaler; Lewis A. Treen, jr., deputy forest supervisor to forest supervisor; Asher Ireland, forest ranger to national forest examiner.

CHANGE IN DESIGNATION.

SILVICULTURE.—Edward E. Carter, forest inspector to assistant forester.

DISTRICT 1.—Anson B. Hodgins, Lolo, ranger to scaler.

DISTRICT 3.—Lee R. DeCamp, Datil; Llewellyn J. Putsch, Manzano, forest rangers to deputy forest supervisors.

DISTRICT 5.—George R. Orr, Plumas; J. V. Wulff, Sierra, forest examiners to lumbermen.

DISTRICT 7.—Rudolph Dieffenbach, forest examiner to forest supervisor.

RESIGNED.

EDITOR.—Findley Burns, chief of publication.

ACQUISITION.—Wm. R. Barbour, forest examiner; Tivit C. Cuthbertson, forest ranger.

RESEARCH.—Samuel T. Dana, assistant chief, forest investigations.

LABORATORY.—George C. McNaughton, engineer in forest products; Francis C. Coulson, assistant chemist in forest products; Peter Skurdalsvold, assistant engineer in forest products.

DISTRICT 1.—J. F. Forsythe, Kaniksu, forest supervisor; Nels Johnson, Coeur d'Alene; S. W. Murdock, Flathead, scalers. Louis H. Foote, Coeur d'Alene, lumberman; J. Roy Brownlie, Sioux, forest assistant; Wesley A. D'Ewart, Absaroka; Wm. A. Kerlee, Bitterroot; Peter De Groot, Blackfeet; Robert Scarlett, Cabinet; Sherwood S. McEwan, Kaniksu; B. E. Mooney, Kootenai; F. W. Gumaer, Pend Oreille, forest rangers. Mrs. Ada M. Argall, Beartooth; A. M. Caisse, Custer; D. B. Thompson, Kootenai, forest clerks. Elizabeth J. Simpson, St. Joe, clerk (typewriter); Inez Hilley, Jefferson; Mary E. Isaminger, Kaniksu; Mrs. Ruby M. Brome, clerks (stenographers and typewriters).

DISTRICT 3.—John A. Adams, Apache, deputy forest supervisor; Prudence M. Faddis, Apache; Audrey Bates, Datil; Mary T. Timpe, Prescott, clerks (typewriters). A. Tabitha Speer, Datil; Ethel M. Bartell, Gila; Orwyn P. Veach, Lincoln, clerks (stenographers and typewriters). Albert J. Abbott, Coronado; George H. Currie and Howard A. Thrall, Gila;

Eddy E. Hudman, Lincoln; Hubert N. Kimbrough, Manzano; Frederick H. Smith, Tusayan, forest rangers. Willard M. Drake, Lincoln, forest examiner; Frank E. Norton, Santa Fe, scaler. Herbert B. Herms, clerk; Hugh M. Bryan, grazing examiner; Josephine Dye, Blanche I. Porterfield, and Opal H. Silcox, clerks (stenographers and typewriters).

DISTRICT 2.—Francis M. Harless, Battlement, forest clerk; Marie A. Bennett, Medicine Bow, clerk (stenographer and typewriter); Lesley E. Griffiths and Newell E. Hibbard, Black Hills; Cassius M. Thomas, Cochetopa; Alfred T. Lee, Colorado; Ross M. Lambdin, Gunnison; J. G. Blaine, Harney; Samuel Harry Clay, Leadville; Frank McDaniel, San Juan; Bertram J. Ray, Uncompahgre; Charles O. Griffin, Black Hills; Fred Stell, White River, forest rangers. Theodore W. Venemann, clerk; Alice M. Brown, clerk (stenographer and typewriter).

DISTRICT 4.—Dagbert M. Adair, Fishlake; Frank Foster, Idaho; LeRoy E. Bennauer, Wasatch, forest rangers. Alice H. Venable, Idaho, clerk (stenographer and typewriter); Lee A. Harris, Kaibab, forest supervisor; Thomas T. Califro, Toiyabe, forest clerk; Raymond G. Steele, Toiyabe, deputy forest supervisor.

DISTRICT 5.—Charles M. Knuthson, Plumas; Carl L. Abbott, Santa Barbara; Robert A. McInroy and James U. Poore, Shasta; Wade H. Atkeson, Cleveland; James F. Davis, Modoc, forest rangers. William B. Rider, Klamath, forest supervisor; Katherine M. Schuck, Civil Service Commission, clerk (stenographer and typewriter). Anna E. Nolte and Irene J. Dunphy, clerks (stenographers and typewriters); Theodore V. Tronoff, draftsman.

DISTRICT 6.—Harvey J. Lickel, Frank L. Carlson, Arthur W. Parker, Earl B. Moore, Robert H. Harper, Oscar E. Kerstetter, Charles W. Weyburn, Charles F. Mack, forest rangers. Alice E. Ure, Edith C. Wall, Mrs. Hannah K. Dunham, clerks (stenographers and typewriters). Frank A. Johnson, Mrs. Georgene L. Miller, forest clerks. Roy B. Love; messenger; Earl A. Gregg and Garrett B. Holloway, clerks (typewriters). Allen H. Hodgson, forest examiner; Thomas P. Mackenzie, assistant district forester; John M. Schmitz, forest supervisor.

DISTRICT 7.—Verne Rhoades, Pisgah, forest supervisor; Wesley B. Harrison and Robert M. Evans, Ozark; Monroe M. Plemmons, Arkansas, forest rangers. Martin C. Bowers, White Top, assistant forest ranger.

DISMISSED.

DISTRICT 4.—Joseph F. Anderson, Manti, forest ranger.

With deep regret announcement is made of the death of Rudolph E. Mellenthin, forest ranger, La Sal, August 23, and C. D. Cushing, lumberman, Acquisition, September 22.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* F. J. Bennett: Grazing trespass, civil, Gallatin National Forest. Case closed upon receipt of $24, value of forage consumed.

United States *v.* Great Northern Railway Co.: Fire trespass, civil, Kootenai National Forest. Case closed upon receipt of $162.22, value of timber damaged.

United States *v.* Milwaukee Lumber Co. and Fidelity & Deposit Co. of Maryland: Proceedings on contract and bond. Suit instituted for recovery of $3,344.25, value of timber cut by defendant lumber company from Joseph Robicheau homestead.

United States *v.* John Zosel: Grazing trespass, civil, Helena National Forest. Case closed upon payment of fees in the sum of $9.75 to the Cottonwood-Helena Cattle Association.

Law Cases in District 2—

United States *v.* Gold Mining Co.: Fire trespass, Black Hills National Forest. Case closed on payment of damages in full, amounting to $24.75.

United States *v.* T. W. Ames: Grazing trespass, Shoshone National Forest. Case closed on payment of damages in full, amounting to $17.60.

United States *v.* Sarah Hopson, Estate: Occupancy trespass, Leadville National Forest. Case closed on payment of damages in full, amounting to $28.98.

United States *v.* Rim Rock Ranch Co.: Grazing trespass, Shoshone National Forest. Payment received in full in the sum of $82.62 and the case closed.

United States *v.* Virginia & Rainy Lake Co.: Fire trespass, Superior National Forest. Trial held at Duluth, July 11. At the conclusion of the Government's testimony the motion of the defendant for directed verdict, on the ground that the plaintiff's evidence was insufficient, was granted. No appeal was taken and case closed.

United States *v.* Colorado Power Co.: Occupancy trespass, Holy Cross National Forest. Suit to enjoin operation of the company's power plant at Shoshone, Colo., until permit was secured. First order of the court, reported in 240 Fed., 217, was made final February 11, 1918, upon the payment by the defendant into the Registry of the Court of the sum of $5,815.55, covering the charges for the use of the lands up to January 1, 1915. Upon recommendation of the Forester that no appeal be taken from the court's decree, the case was closed.

United States *v.* Carbon Timber Co.: Timber trespass, Hayden National Forest. The judgment reported in the July Field Program was paid, with interest, amounting to $5,051.62, and case closed.

United States *v.* Colorado Power Co.: Special transmission line, Holy Cross, Leadville, Pike, and Sopris National Forests. Suit to recover payments due under special-use permit for transmission line across the Holy Cross, Leadville, Pike, and Sopris National Forests. This case was referred to Department of Justice several years ago, but institution of suit was delayed pending the determination of the suit above referred to against the same company involving the Shoshone power plant. After the final order in that case the company paid the amount due under the permit up to February 28, 1918, amounting to $5,403.67. Case was accordingly closed.

Harrington *v.* Kelleter & Frink: Injunction proceedings, Black Hills National Forest. Suit by mining claimant against the supervisor and timber purchaser for injunction and damages on account of the sale and cutting of timber from certain of Harrington's mining locations Harrington claiming that the written consent which he gave the supervisor did not cover the claims from which the timber was cut. Settlement was arranged before final hearing and the case dismissed.

United States *v.* Charles Hidley: Occupancy trespass, Bighorn National Forest. Bill to enjoin unlawful occupancy filed.

United States *v.* Herman Hartman: Fire trespass, criminal, Shoshone National Forest. Defendant pleaded guilty on February 6, 1918, to violation of section 53 of Penal Code and was fined $10. The fine not having been paid, the United States attorney, on September 10 issued execution.

United States *v.* Wm. Kyler: Fire trespass, criminal, Bighorn National Forest. July 6, 1917, defendant pleaded guilty to violation of section 53 of Penal Code and was fined $50 and costs. Fine not having been paid, the United States attorney, on September 10, issued execution.

United States *v.* Geo. Truelson: Grazing trespass, Montezuma National Forest. Case closed upon payment of actual damages, amounting to $62.69.

United States *v.* John Samuelson: Fire trespass, Michigan National Forest. Case closed upon payment of damages in full, amounting to $18.46.

Law Cases in District 3—

United States *v.* W. F. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of $16.26, actual damages.

United States *v.* W. C. Martin: Grazing trespass, Apache-Datil National Forests. Case closed on payment of $17.25, actual damages.

United States *v.* Max H. Montoya: Grazing trespass, Datil National Forest. Case closed on payment of $425.25, actual damages.

United States *v.* T. B. Longwell: Timber trespass, Lincoln National Forest. Case closed on payment of $65, actual damages.

United States *v.* Clyde and Mrs. Josie McPherson: Grazing trespass, Coronado National Forest. Case closed on payment of $32, actual damages.

United States *v.* Mrs. May McKeen: Grazing trespass, Gila-Apache National Forests. Case closed on payment of $322.83, actual damages.

United States *v.* Hugh Bronson McKeen: Grazing trespass, Gila-Apache National Forests. Case closed on payment of $136.78, actual damages.

United States *v.* L. P. Glasscock: Grazing trespass, Lincoln National Forest. Case closed on payment of $114, actual, and $50, punitive damages.

United States *v.* Pablo Montoya: Grazing trespass, Santa Fe National Forest. Case closed on payment of $2.55, actual damages.

United States *v.* Sawyer & Otondo: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $3.75, actual damages.

United States *v.* W. W. Perkins: Grazing trespass, Prescott National Forest. Case closed on payment of $61.75, actual damages.

United States *v.* James Wingfield: Grazing trespass, Coconino National Forest. Case closed on payment of $4,702.80, actual damages.

United States *v.* D. W. Wingfield: Grazing trespass, Coconino National Forest. Case closed on payment of $3,219, actual damages.

United States *v.* George Thompson: Grazing trespass, Apache National Forest. Case closed on payment of $82.50, actual damages.

United States *v.* Pearce & Pettis: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $418.50, actual damages.

United States *v.* Manuel A. Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of $54.60, actual, and $40, punitive damages.

United States *v.* W. C. Parks: Grazing trespass, Lincoln National Forest. Case closed on payment of $205.80, actual damages.

United States *v.* C. O. Wills: Grazing trespass, Crook National Forest. Case closed on payment of $11.52, actual damages.

United States *v.* W. K. Brown: Grazing trespass, Tusayan National Forest. Case closed on payment of $122.67, actual damages.

United States *v.* Hugh McKeen: Grazing trespass, Apache-Gila-Datil National Forests. Case closed on payment of $1,809.92, actual damages.

United States *v.* Jesse B. Kellam: Grazing trespass, Coconino National Forest. Information prepared. Case set for trial. Arrest made. Defendant agrees to plead guilty and pay a fine, and offers settlement of civil damages amounting to $780. This sum remitted in settlement.

United States *v.* Fred Howard: Grazing trespass, Manzano National Forest. Judgment for actual damages $22.50 with costs approximating $250 entered by consent.

United States *v.* Dick Shults: Occupancy trespass, Tusayan National Forest. Trespass terminated and case dismissed by United States attorney on recommendation of this office. Case closed.

United States *v.* Keene & Roseberry: Grazing trespass, Gila National Forest. $85.78 costs paid. Permanent injunction issued last January.

State of New Mexico *v.* Juan W. Carrejo, Datil National Forest. Case dismissed by prosecuting attorney after failure of the grand jury of the county to indict.

United States *v.* Clemente Mestas: Occupancy trespass, Santa Fe National Forest. United States attorney advised Forest Service willing to list land, and ejectment proceedings may be dismissed.

United States *v.* J. F. Hutchinson: Fire trespass, Carson National Forest. Information prepared charging failure totally to extinguish fire built by defendant in a National Forest.

United States *v.* W. C. Ross: Occupancy trespass, Coconino National Forest. Case in hands of United States attorney for injunction proceedings to terminate illegal occupancy.

United States *v.* John Rickard: Occupancy trespass, Lincoln National Forest. Case in hands of United States attorney for injunction proceedings to terminate illegal occupancy. Trespasser inducted into Army through draft. Action postponed.

United States *v.* Joe Stephens: Fire trespass, Lincoln National Forest. Commissioner's warrant in hands United States marshal for service. Case referred to Forester for reference to Department of Justice as basis for prosecution under section 52, United States Penal Code.

United States *v.* Gaspar Suarez: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Antonio Suarez: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Martin E. Echenique: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Jose Echenique: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Valentin Aja: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* J. L. Wall: Grazing trespass, Coconino National Forest. Case closed on payment of $24, actual damages.

United States *v.* Jose Ruiz: Grazing trespass, Crook National Forest. Case closed on payment of $32.56, actual damages.

United States *v.* George H. Baumann: Grazing trespass, Tusayan National Forest. Case closed on payment of $2.50, actual damages.

United States *v.* Mrs. F. M. Hardcastle: Grazing trespass, Lincoln National Forest. Case closed on payment of $54.80, actual damages.

United States *v.* Julio Sancet: Grazing trespass, Coconino National Forest. Case closed on payment of $158.95, actual damages.

United States *v.* Montosa Sheep Co.: Grazing trespass, Coconino National Forest. Case closed on payment of $182.85, actual damages.

United States *v.* W. S. Cooper: Grazing trespass, Prescott National Forest. Case closed on payment of $36, actual damages.

United States *v.* W. D. Williams: Grazing trespass, Lincoln National Forest. Case closed on payment of $44.92, actual damages.

Law Cases in District 4—

United States *v.* A. E. Bringer: Grazing trespass, Sawtooth National Forest. Case closed on payment of $78.75, actual damages.

United States *v.* E. P. Gilbert: Grazing trespass, Payette National Forest. Case closed on payment of $217.60; $7.60 costs, $100 punitive damages, and $110, actual damages.

United States *v.* James B. Showalter: Grazing trespass, Sevier National Forest. Case closed on payment of $15.19, actual damages.

United States *v.* O'Neill Bros.: Grazing trespass, Humboldt National Forest. Case closed on payment of $60.60, actual damages.

United States *v.* E. F. Price: Grazing trespass, Targhee National Forest. Case closed on payment of $112.50, actual damages.

United States *v.* Frank Holbrook: Grazing trespass, Payette National Forest. Case closed on payment of $24 actual damages.

United States *v.* John Echevarria: Grazing trespass, Boise National Forest. Case closed on payment of $94, actual damages.

United States *v.* Garteiz & Co.: Grazing trespass, Humboldt National Forest. Judgment for $100 punitive, $5.67 actual damage, and for costs paid. Case closed August 31, 1918.

State of Utah *v.* Archuletta, et al., La Sal National Forest. On August 23 Forest Ranger Rudolph E. Mellenthin attempted to arrest Ramon Archuletta, a deserter from the Army. Mellenthin was shot and very shortly afterwards died from his injuries. Before losing consciousness he shot and seriously wounded Archuletta, who together with Ignacio Martinez was subsequently arrested by a posse. A preliminary hearing was had at Monticello, and Archuletta and Martinez were held on the charge of murder for action by the grand jury. In attempting the arrest of Archuletta, Ranger Mellenthin was acting under authority of section 6 of the act of Congress of May 18, 1917, which authorizes the President to utilize the services of all employees of the Government in enforcing the selective-service law.

United States *v.* Donald Findlay, et al: Fish and game trespass, Kaibab National Forest, Grand Canyon National Game Preserve. The cases which were set for trial before the United States district court at Prescott September 16, 1916, were continued to the March term.

Law Cases in District 5—

United States *v.* A. Escabel, F. Lopez, E. Diaz, and M. Romerz: Fire trespass, Stanislaus National Forest. Indictment secured. Hearing held and defendants found guilty. Sentenced to three months each in jail.

United States *v.* H. W. Bucknell: Property trespass, larceny, California National Forest. Defendant plead guilty and was fined $100.

United States *v.* Valentine Simmons: Fire trespass, California National Forest. Indictment returned by grand jury.

United States *v.* Ed Burke: Fire trespass, California National Forest. Indictment returned by grand jury.

United States *v.* Great Western Power Co.: Fire trespass, Plumas National Forest. Payment in full, in the sum of $443.57, received and case closed.

United States *v.* McCloud River Lumber Co.: Timber trespass, Shasta National Forest. Payment of $225.08 received in full settlement and case closed.

United States *v.* Dan Brosnan: Grazing trespass, Modoc National Forest. Payment of $19.88 received in settlement and case closed.

United States *v.* L. V. Olcese: Grazing trespass, Mono National Forest. Payment of $15.75 in full settlement received and case closed.

United States *v.* F. Yparraguirre: Grazing trespass, Mono National Forest. Payment of $35.25 received in full settlement and case closed.

United States *v.* August Galvin: Grazing trespass, Inyo National Forest. Payment of $121.49 received in full settlement and case closed.

United States *v.* J. V. Caldwell: Grazing trespass, Modoc National Forest. Payment of $139 received in full settlement and case closed.

United States *v.* Red River Lumber Co.: Timber trespass, Lassen National Forest. Payment of $25.65 received in full settlement and case closed.

Law Cases in District 6—

United States *v.* Emmett Cochran: Grazing trespass, civil and criminal, Umatilla National Forest. Case closed July 13, 1918, on payment of fine of $500 and $1,000, civil damages.

United States *v.* Nelson Bros.: Grazing trespass, civil and criminal, Colville National Forest. On July 23 Attorney General instructed United States attorney to institute suit to collect $225 damages.

United States *v.* Ed Barker: Grazing trespass, Okanogan National Forest. Case closed August 6, 1918, on payment of $6.40, actual damages.

United States *v.* Ashland Box and Lumber Mfg. Co.: Timber trespass, Crater National Forest. Hearing held before referee June 18, on protest by receiver against Government claim of $781.08. Decision of referee August 30, 1918, granting the Government's preferred claim in the amount of $450.11. Case closed August 31, 1918.

United States *v.* Allen T. Newton, Snoqualmie National Forest. Suit instituted September 4, 1918, by Department of Justice to cancel patent.

United States *v.* Ukiah Stock Co.: Grazing trespass, Umatilla National Forest. Case closed September 11, 1918, on payment of $5.05 actual and $50 punitive damages.

United States *v.* Sumpter Valley Railway. Order of Oregon Public Service Commission issued July 5, 1918, granting the 15 per cent increase in rates applied for, with the understanding that the Sumpter Valley Railway had been released by the Federal Railroad Administration, thereby rendering the 25 per cent increase inoperative. Case closed July 11, 1918.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 607.—Tests of the Absorption and Penetration of Coal Tar and Creosote in Longleaf Pine.

Department Bulletin 680.—Miscellaneous Conifers of the Rocky Mountain Region.

Department Bulletin 683.—Utilization of Elm.

Unnumbered Publication.—Landscape Engineering in the National Forests.

Unnumbered Publication.—Use But Do Not Abuse Farm Woodlands.

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[October, 1918.]

[Numbers in parentheses after the month indicate page.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1918

No. 16 Issued January 15, 1919

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

January Field Program, 1919.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instruction printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.
WILLIAM L. HALL, Assistant Forester.
E. A. SHERMAN, Assistant Forester.

D. D. BRONSON, forest inspector.
A. O. WAHA, forest inspector.
G. G. ANDERSON, assistant to the Forester.
MAINTENANCE.—BILLIE I. SHANNON, in charge.
STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS, in charge.
SUPPLIES.—S. L. MCLAURIN, property clerk.
EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.
SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.
PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, assistant forester, in charge; CLINTON G. SMITH, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; W. G. Hastings, chief forester, St. Albans, Vt.; F. W. Rane, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; ———, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Fairburn, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. A. Smoot, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, acting in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, E. H. Frothingham; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relations Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.)—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; Don P. Johnston, assistant district forester; H. D. Tiemann, dry-kiln specialist; P. R. Hicks, engineer in forest products; Oscar M. Wold, fiscal agent; E. P. Ancona, administrative assistant; Charles P. Juckem, executive clerk.

Commercial extension.—Rolf Thelen (on detail, Washington office).

Review of results.—Chas. R. Thomas, in charge; Ray C. Tuttle.

ENGINEERING.—F. E. BONNER, in charge; B. L. Nelson, J. B. Yule, H. T. Burgess.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, H. M. Mayo, G. W. Blanco, D. E. Cable.

Lumber studies.—Henry J. Hegel, in charge; D. G. White, W. W. Morris.

PULP AND PAPER.— ————, in charge; H. E. Surface (on detail, Washington office), Sidney D. Wells, V. P. Edwardes.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, E. R. Mauer, T. R. C. Wilson, J. S. Mathewson, J. D. Deihl, G. E. Heck, Armin Elmendorf, H. S. Grenoble, R. Crane, C. E. Dennis, R. P. A.

Johnson, J. O. Bixby, R. F. Luxford, C. A. Plaskett, H. J. Rosenthal, S. Schwartz, J. R. Watkins, L. A. Welo, R. M. Wirka, H. D. Frary, C. B. Norris.

Box Design.—Henry J. Hegel, in charge of laboratory tests; Don L. Quinn, in charge of field studies; L. R. Morris, J. B. Frear, H. M. Hale, A. F. McDuffie, L. P. Elliott.

TIMBER PHYSICS.—FRANK J. HALLAUER, in charge; A. Koehler, C. A. Kupfer, Eloise Gerry, M. E. Diemer, Gertrude Griffin, C. W. Gould, James D. Studley, M. C. Jensen, C. V. Sweet, Lawrence V. Teesdale, D. R. Brewster, J. L. Brownlee, Nils B. Eckbo.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; Geo. M. Hunt, Matthew E. Dunlap, Shirley W. Allen, S. B. Henning, Alfred C. Lindauer, Frederick L. Browne, Samuel Butterman, T. R. Truax, R. A. Colgan, F. T. Anderson, C. K. Cooperider, Clarence Coye, J. D. MacLean.

Propeller Manufacture.—A. L. Heim, in charge; Samuel Morrell, A. C. Knauss, Louis Seutter, E. F. Horn.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge; ROLF THELEN, on detail.

STUDIES.—J. T. Harris, R. K. Helphenstine, jr., and Harry P. Burden.

UTILIZATION REPORTS BY SPECIES.—W. D. Brush.

WOOD-WASTE EXCHANGE.—R. K. Helphenstine, jr.

LUMBER INDUSTRY STUDY.—R. C. BRYANT.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, Albert H. Pierson. Collaborator: A. B. Strough, Albany, N. Y.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—R. R. RANDELL, assistant engineer, in charge. (temporarily on detail to the Forest Products Laboratory); C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER (on detail to Madison laboratory).

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham,

N. H.; George W. Marshall, Clayton, Ga. Forest examiners: White Mountain Area, H. S. Davis, Gorham, N. H.; Shenandoah Area, S. H. Thompson, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, W. J. Damtoft, Asheville, N. C.; Savannah Area, Samuel L. Corbin (in charge of party), Clayton, Ga.; Alabama Area, E. J. Meade (in charge of party), Moulton, Ala.

SURVEY OF LANDS.—Harold G. Wood, national forest examiner (on furlough), Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Carl F. Muzzey, Harrisonburg, Va.; Nantahala Area, J. W. Fox, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Pisgah Area, James Denman and W. N. Sloan, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Moulton, Ala.; John W. Van Hoy, Mena, Ark.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—C. B. BAKER, administrative assistant. Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Såvenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.; E. E. HUBERT, scientific assistant.

GRAZING.—C. H. ADAMS, assistant district forester; BURR W. CLARK, executive assistant.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE, mineral examiner.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.— ———.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); E. E. Wilson, deputy forest supervisor.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. L. Billings, lumberman; James H. Hull, forest examiner.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); F. J. Jefferson, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); A. M. Baum, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU).

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P); W. W. Weber, deputy forest supervisor; W. C. Latane, forest examiner.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, deputy forest supervisor; C. S. Webb, scaler.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU).

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU); W. J. Derrick, deputy forest supervisor.

Kootenai.—C. M. STEVENS, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU).

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P).

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

Kaniksu.—H. R. FLINT, forest supervisor, Newport (WU via Priest River–Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; W. I. HUTCHINSON, information and recreation.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forest examiner in charge; C. A. DAHLGREN, lumberman.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.— ———, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.— ———.

Entry Surveys.—W. C. CAMPBELL.

ROADS.— ———.

WATER POWER.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU); H. H. RICHMOND, forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); Wallace J. Pearce, deputy forest supervisor.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).
Hayden.—See Wyoming.
Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); Robert H. Easterbrooks, forest examiner.
Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).
Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.
Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P); Carl M. Stanley, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.
Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.
Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU); A. L. Richey, deputy forest supervisor.
San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).
San Juan.—A. F. C. HOFFMAN, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.
Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU); Willard C. Hassel, forest examiner.
Uncompahgre.—J. W. LOWELL, Jr., forest supervisor, Delta (WU); Harold L. Borden, forest examiner.
White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.
Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); William Wiehe, deputy forest supervisor; L. E. Hitchcock, forest examiner; Earl W. Tinker, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Louis E. Coughlin, deputy forest supervisor; Andrew Hutton, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; WARD SHEPARD, forest examiner, educational cooperation, recreational uses, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). MORTON M. CHENEY, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—WARD SHEPARD, forest examiner, assistant in operation.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; JOHN H. ALLISON and QUINCY RANDLES, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING, forest examiner.

ENGINEERING.—C. A. LONG, district engineer; LEE C. DAVES, assistant engineer.

MAPS AND SURVEYS.—LEE C. DAVES, in charge.

Drafting.—F. E. LANDON.

Entry Surveys.—FRANK D. YOST, surveyor.

ROADS.—C. A. LONG, in charge.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P).

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P); Lorenzo B. Maxwell, deputy forest supervisor; Leonard R. Lessel and James W. Girdner, national forest examiners.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P); Kenner C. Kartchner, deputy forest supervisor.

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor; Williams (WU, P); Francis L. W. Grubb, deputy forest supervisor.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, forest supervisor, Grand Canyon (P).

NEW MEXICO.

Carson.—ELLIOTT S. BARKER, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor. Fort Bayard Nursery, Herman Krauch, forest examiner.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JAMES E. SCOTT, national forest inspector; ELMER C. ROSS, telephone construction.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge, Murray, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, D. A. SHOEMAKER, and T. B. NICHOLS, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.—O. C. LOCKHART. Jr.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.
Cache.—See Utah.
Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU); G. G. Henderson, deputy forest supervisor.
Challis.—DAVID LAING, forest supervisor, Challis (WU).
Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).
Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).
Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.
Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Clinton M. Mangun, deputy forest supervisor.
Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU); Leslie E. Dodge, deputy forest supervisor.
Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney and Ernest A. Renner, deputy forest supervisors.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—CHAS. DEMOISY, Jr., forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.
Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Raymond D. Garver, deputy forest supervisor.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU).
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor. Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—R. HEADLEY, assistant district forester, CLARENCE WILEY, national forest inspector.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING.—STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—J. C. DORT, acting district engineer.

MAPS AND SURVEYS.—J. C. DORT, in charge.

Drafting.—R. E. L. BORGFELDT.

ROADS.—J. C. DORT, in charge.

WATER POWER.—J. C. DORT, in charge.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. Coffman, forest supervisor, Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, Escondido (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Bakersfield (WU); George W. Lyons, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant—Exp. via Friant); J. V. Wulff, lumberman.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU).

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU).
Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL, forest examiner.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT and E. R. JOHNSON, surveyors.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor; WM. RYLE TEED, national forest examiner.

ENGINEERING.—P. H. DATER, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—R. H. ROBERTSON.

Surveys.—CECIL A. LORD.

ROADS.—H. L. PLUMB.

WATER POWER.—P. H. DATER.

PRODUCTS.—L. A. NELSON, logging engineer, in charge; T. J. STARKER, forest examiner.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); Thomas M. Hunt, forest supervisor, Cordova (WU, P).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); B. F. Heintzleman, deputy forest supervisor.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); H. D. Foster, deputy forest supervisor; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P); H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); C. T. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).
Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.
Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Bilings, deputy forest supervisor; A. R. Wilcox, forest examiner.
Wenaha.—See Washington.
Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; George L. Drake, forest examiner; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Exp. via Wenatchee).
Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).
Colville.—C. C. REID, forest supervisor, Republic (WU, P); F. W. Cleator, deputy forest supervisor.
Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.
Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; E. J. Hanzlik and O. F. Ericson, forest examiners.
Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.
Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., deputy forest supervisor.
Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.
Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).
Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, ENGINEERING. H. O. STABLER, assistant district forester; R. C. HUEY, roads.

SILVICULTURE, GRAZING, LANDS, } F. W. REED, assistant district forester; W. F. HILL, land classification.

NATIONAL FOREST.

ALABAMA.

Alabama.—E. J. MEAD, forest examiner in charge, Moulton.

ARKANSAS.

Arkansas.—JOHN L. COBBS, Jr., forest supervisor, Hot Springs (WU, P); Chas. A. Plymale, deputy forest supervisor.

Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens, Tenn. (WU, P).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton (WU, P).

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P).

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); J. ST. J. BENEDICT, forest examiner, timber sales.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See Georgia.

TENNESSEE.

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest examiner in charge, Johnson City (WU, P).

Cherokee.—See Georgia.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P).

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

FORESTER.—Wm. L. Hall, assistant forester.

ENGINEERING.—Lyle A. Whitsit, assistant engineer.

LANDS.—John D. Jones, national forest examiner.

DISTRICT 1.—R. A. Hamilton, Clearwater, forest supervisor; R. A. Phillips, Lolo, forest ranger.

DISTRICT 2.—Carl M. Stanley, Pike, deputy forest supervisor; Leslie T. Mahurin, Holy Cross; William J. Trembath, Michigan; Creed A. Neeper, forest clerks. Benjamin H. Lowe, Harney, forest ranger.

DISTRICT 3.—Jay Montgomery, Tusayan, forest clerk; Paul Henley Roberts, inspector of grazing.

DISTRICT 4.—Emyr E. Jones, clerk (typewriter); Alvin H. Johnson, minor clerk; Albert R. Griffith, Boise, forest ranger; Raymond T. Forbes, Dixie; Otto H. Tschanz, Lemhi, forest clerks. Dana Parkinson, Salmon, forest supervisor; Jesse L. Bedwell, Weiser, forest ranger.

DISTRICT 5.—Clarence W. Griggs, California, clerk (stenographer and typewriter); Richard L. Wiley, California, forest clerk.

DISTRICT 6.—William B. Osborne, jr., Oregon; R. E. Kan Smith, Tongass, forest examiners. Martin N. Unser, Wenaha, clerk.

APPOINTED.

EDITOR.—Arthur C. Watkins, assistant editor.

RESEARCH.—W. Hoyt Weber and Ralph C. Bryant, industrial examiners in forest products.

LABORATORY.—Horace T. Burgess, computing specialist; Joseph D. Deihl, administrative assistant; Olenus L. Sponsler and Thomas R. Truax, wood technologists; Vance P. Edwardes, engineer in forest products; Rufus Crane and Teodulo J. Medicielo, assistant engineers in forest products; Fredolf T. Anderson and Harold M. Mayo, assistant chemists in forest products; Shirley W. Allen, Richard A. Colgan, jr., Harry M. Hale, and Arthur F. McDuffie, industrial examiners in forest products.

DISTRICT 1.—Frank Foltz, Kaniksu, forest ranger; Elsie M. Ruppert, Sioux, clerk (typewriter); Joanna M. M. Granger, Jefferson, clerk (stenographer). Mrs. Edna L. Allen and Mrs. Blanche D. Simes, clerks (typewriters).

DISTRICT 2.—Alfred P. Larson, Bighorn, forest clerk; Mary B. Hughes, Gunnison, clerk (stenographer and typewriter).

DISTRICT 3.—Fannie Lynch, Apache, clerk; Walter J. Perry, Carson; John W. Dorman, Coconino; Simeon Strickland, Lincoln, scalers. Clyde E. Thomson, Coconino, forest ranger; Laura Flickinger, Datil, clerk (stenographer); Virginia C. Bamber, Prescott, clerk (typewriter); Mrs. Mahala McGonagill, Tusayan, charwoman.

DISTRICT 4.—Bernadette M. Murphy, Marion A. Carter, Ruby Pearl Eickhoff, and Dorothy L. Kyes, Sawtooth, clerks (stenographers and typewriters). Luella M. Taylor and Elsie C. Bayer, Bridger; Muriel A. Fifield, Targhee, clerks (typewriters). Garrett B. Holloway, Bridger, forest clerk. Scott W. Stewart, unskilled laborer.

DISTRICT 6.—Flora Parkhurst and Katherine S. Vigars, clerks (stenographers and typewriters).

PROMOTED IN RANK.

EDITOR.—Lewis C. Everard, assistant editor to chief of publication.

ACQUISITION.—Paul G. Jenney, transit man to examiner of surveys.

DISTRICT 1.—H. R. Flint, forest examiner, Flathead, to forest supervisor, Kaniksu.

DISTRICT 3.—Thomas C. Turk, Datil, forest ranger to deputy forest supervisor; Lee C. Daves, surveyor to assistant engineer.

DISTRICT 4.—Alexander McQueen, Nevada; John C. Roak, Kaibab; Sidney C. Scribner, Salmon, deputy forest supervisors to forest supervisors. Elmer C. Ross, forest ranger to telephone engineer. Oscar W. Mink, Humboldt; Clinton M. Mangun, Salmon; Ernest A. Renner, Targhee, forest rangers to deputy forest supervisors.

DISTRICT 5.—Charles V. Brereton, forest ranger to national forest examiner; Frederic J. Jeken, Angeles, forest ranger to deputy forest supervisor; Fred J. Dooley, Tahoe, forest ranger to scaler; Ernest V. Jotter, Trinity, forest examiner to forest supervisor; William V. Mendenhall, Angeles, forest ranger to deputy forest supervisor.

DISTRICT 6.—George E. Stevenson, Wallowa, forest ranger to scaler; John C. Kuhns, jr., grazing examiner, Deschutes, to forest supervisor, Wenaha.

CHANGE IN DESIGNATION.

DISTRICT 1.—Vernon C. Sheffield, Sioux, forest ranger to forest assistant.

DISTRICT 5.—Richard F. Hammatt, forest supervisor to forest examiner.

DISTRICT 6.—Richard H. Robertson, draftsman (copyist, topographic) to draftsman (surveyor).

RESIGNED.

RESEARCH.—Kenneth McK. Clarke, logging engineer.

ACQUISITION.—Robert J. Noyes, forest examiner.

LABORATORY.—Roger B. Quincy, box inspector; Ernest D. Fahlberg, Ralph E. Johnston, Willard S. Wilder, E. Page Tracy, and Wm. S. Broome, assistant engineers in forest products.

DISTRICT 1.—Glen L. Dodge, Custer; Nathan J. Hayes and Alonzo H. Ott, Deerlodge; Harold B. Knapp, Gallatin; Frank A. Clark, Jefferson; L. F. Jefferson, Lewis and Clark; Harry C. Schick and John R. Winnington, forest rangers. Elizabeth M. Cook, Jefferson, clerk (stenographer and typewriter). H. H. Lansing, draftsman; Esther S. Halm, clerk (stenographer and typewriter); Marie Taylor, clerk (stenographer).

DISTRICT 2.—Victor H. Frey, Arapaho; Mrs. Theresa A. Van Dolah, Leadville, forest clerks. Helen Haller, Medicine Bow; Eva J. Crossman, San Juan; Mrs. Doris I. Barr, clerks (stenographers and typewriters). Katherine A. Wagner, Montezuma, clerk (typewriter); Berry W. Phelps, Arapaho; Lionel H. Sherman, Bighorn; Marion J. Webber, Black Hills; Walter Enbom, Gunnison; Cedric F. Morey, Michigan; William E. Jackson, Pike, forest rangers. Earl Byron Tanner, logging engineer; Henry C. Orpen, surveyor-draftsman.

DISTRICT 3.—Charles C. Carr, Crook, clerk; Laura Flickinger, Datil, clerk (stenographer); Benjamin F. Nabours, Lincoln, forest ranger; Mrs. Margaret Hiscox, Tonto, clerk (typewriter); Roy M. Pierce, Tonto, forest ranger. Mrs. Laurine Raike, clerk (stenographer and typewriter).

DISTRICT 4.—Frederick L. Mott, Nevada, forest supervisor; Andrew E. Oman, forest examiner; Raymond J. Becraft, grazing examiner. James W. Robins, Powell; Percy L. White, Toiyabe; Josiah Shurtz, Fishlake; Joseph W. Palmer, La Sal; Glenn Strawn. Payette, forest rangers. Ivy P. Flanery, Gladys O. Elliott, and Mary D. Beach, Cache; Muriel M. Littlefield, Humboldt, clerks (stenographers and typewriters).

DISTRICT 5.—John M. Longdon, Shasta; Hosea L. Clark, Sequoia; Thomas R. Wentzell and Walter H. Coupe, Modoc; Robert Finley, Klamath; Henry W. Atcheson, California; Walter David Marx and Carlton H. Fritz, Angeles, forest rangers. Frank A. Wilson, Tahoe, deputy forest supervisor. John E. Zollers, Mono; Lura S. Gyllstrom, Santa Barbara, forest clerks. Florence A. Henderson, clerk (stenographer and typewriter); Ynez V. Roussell, messenger girl.

DISTRICT 6.—George J. Landess, Cascade; Ernest J. Moore, Snoqualmie; Eilert T. Skaar, Washington; Jasper T. Taylor, Whitman, forest rangers. Edith C. Wall, Deschutes; Helen V. Weeks, Umatilla, clerks (stenographers and typewriters). Lewis E. McDaniels, Wenaha, forest supervisor. Victor H. W. Flack, draftsman (topographic); Mary E. James, Mrs. Nellie M. Shears, Mary Luella Thompson, clerks (stenographers and typewriters).

DISTRICT 7.—Elwood S. Bushnell, White Top.

With deep regret announcement is made of the death of Eugene R. McGlaughlin, forest assistant, District 1, September 15; Isidor L. Smolen, forest ranger, Fort Valley Experiment Station, October 3; Everett G. Snell, assistant engineer in forest products, Seattle Laboratory, October 11; James Johnston, jr., forest ranger, Lewis and Clark, October 22; R. E. Maurer, surveyer, District 1, October 30; Marion J. Brown, forest ranger, Inyo, November 4; J. Rhode Matthews, forest clerk (temporary), Carson, November 7; Mrs. Lena Weise, charwoman, Carson, November 9; Harley H. Sage, forest ranger, Coronado, November 13; J. Roy Harvey, national forest examiner, District 6, December 5; R. E. Pratt, district engineer, District 2, December 7; Alverous W. Fletcher, forest ranger, Prescott, December 8; Joseph M. Russell, clerk, District 2, December 11; Allen G. Lincoln, hydroelectrical engineer, District 2; December 12; L. C. Herr, compiler, Washington office, January 2; Frank B. Moody, collaborator, State Cooperation, August 19; Ernest P. Johnson, engineer in forest products, Forest Products Laboratory, October 24; Chas. N. Hammond, deputy forest supervisor, Arkansas, October 18; John E. Blalock, forest ranger, Arkansas, October 13.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* L. R. Jones: Grazing trespass, civil, Sioux National Forest. Case closed upon payment of $66.50, value of forage consumed.

United States *v.* Philip Link: Occupancy trespass, civil, Coeur d'Alene National Forest. Trespasser left area after ejectment proceedings. Case closed.

United States *v.* Milwaukee Lumber Co. and Fidelity & Deposit Co. of Maryland: Proceedings on contract and bond for timer cut from canceled Joseph Robicheau homestead claim, St. Joe National Forest. Upon payment by defendants of $3,344.25, the value of the timber cut, and court costs, amounting to $44.55, the case was dismissed by the United States Attorney. Case closed.

United States *v.* Northern Pacific Railway Co.: Cancellation of patent No. 69511, Gallatin National Forest. November 2, 1918, a decision adverse to the United States was rendered in the United States Court for Montana. Appeal will be taken to the Circuit Court of Appeals.

United States *v.* O'Neil-Irvine Co.; Fire trespass, civil, Coeur d'Alene National Forest. Case closed upon receipt of $83.75, value of timber destroyed.

State of Montana *v.* John White: Obtaining money under false pretense, Lolo National Forest. October 8 White was employed by the United States Employment Agency at Missoula for the Forest Service. He was furnished a ticket by the Forest Service from Missoula to Sildex, Mont. He used the ticket but failed to report on the job. October 29 complaint was filed against him before a justice of the peace in Missoula County. A plea of guilty was entered and defendant was sentenced to 10 days in the county jail. Value of ticket $3.70. Case closed.

Law Cases in District 2—

United States *v.* U. V. Herard: Grazing trespass, San Isabel National Forest. Defendant confessed judgment, which was paid in full in the sum of $150 damages and costs, amounting to $49.85.

United States *v.* Frank E. Coe: Timber trespass, Medicine Bow National Forest. Case involved timber cut on lands covered by lieu se-

lections Nos. 2835 and 2836. Lieu selection No. 2835 was clear listed January 12, 1915. Protest against lieu selection No. 2836 was dismissed by decision of November 2, 1918, in case of F. A. Hyde & Co., Cheyenne, 012612. Trespass case was therefore closed.

United States *v.* Wm. Hardick: Grazing trespass, San Juan National Forest. Bill of complaint filed, to enjoin defendant from trespassing upon National Forest land, and also asking for damages already sustained.

United States *v.* Fall River Power Co: Occupancy trespass, Pike National Forest. Bill of complaint filed, to enjoin defendant from operating and maintaining power plant on National Forest land without a permit.

United States *v.* Charles Hidley: Occupancy trespass, Bighorn National Forest. Default taken on failure of defendant to answer complaint seeking to enjoin defendant from occupying National Forest land without permit. Case set for trial December 23, 1918.

Law Cases in District 3—

United States *v.* Frank & Chas. Ryall: Grazing trespass, Prescott National Forest. Case closed on payment of $40.50, actual damages.

United States *v.* Chas. E. Burton: Grazing trespass, Tusayan National Forest. Case closed on payment of $24.75, actual, and $10, punitive damages.

United States *v.* Marion Fix: Grazing trespass, Tusayan National Forest. Case closed on payment of $155.77, actual damages.

United States *v.* G. O. Sommerville: Grazing trespass, Lincoln National Forest. Case closed on payment of $14.85, actual damages.

United States *v.* S. S. Tidwell: Grazing trespass, Lincoln National Forest. Case closed on payment of $6, actual damages.

United States *v.* Antonio E. Vargas: Grazing trespass, Carson National Forest. Case closed on payment of $25, actual damages.

United States *v.* F. C. Purcell: Grazing trespass, Coconino National Forest. Case closed on payment of $45, actual damages.

United States *v.* John H. Pearce: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $334, actual damages.

United States *v.* Francis Campbell & Co: Grazing trespass, Tusayan National Forest. Case closed on payment of $18, actual damages.

United States *v.* Oakley Olney: Grazing trespass, Crook National Forest. Case closed on payment of $76.50, actual damages.

United States *v.* George F. Olden: Grazing trespass, Lincoln National Forest. Case closed on payment of $96.10, actual, and $25, punitive damages.

United States *v.* R. A. Willis: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $11.55, actual damages.

United States *v.* Joe Stephens: Fire trespass, Lincoln National Forest. Defendant indicted, and now in jail awaiting trial.

United States *v.* State Investment Co. et al: Occupancy trespass, Santa Fe National Forest. Mora Grant boundary case. Evidence submitted in September, now printed, and will be argued before Judge Neblett February 17, 1919.

United States *v.* Gaspar Suarez: Grazing trespass, criminal, Prescott National Forest. Plea of guilty, fine of $50 paid, and case closed.

United States *v.* James A. Carey: Grazing trespass, Manzano National Forest. Complaint filed, and default entered.

United States *v.* Lee S. Miller: Grazing trespass, Coconino National Forest. Hearing held on application for preliminary injunction, and defendant allowed 30 days to remove all stock, failing in which, injunction to issue without further evidence.

United States *v.* Alexander Nagy: Personation of forest officer, Carson National Forest. Defendent indicted under section 32 of the Criminal Code on two counts, the first involving intent to defraud the United States through issuance of a permit to cut poles, and the second, intent to defraud the person named in the permit. Second count dismissed, and verdict of not guilty on the first count.

United States *v.* W. C. Ross: Occupancy trespass, Coconino National Forest. Complaint filed in suit for injunction to terminate occupancy.

United States *v.* Redondo Development Co.: Occupancy trespass, Santa Fe National Forest. Decision by Circuit Court of Appeals dismissing Government's application for injunction for removal of fence without prejudice to Government's right to make a true survey under the call of the grant with requirement for removal of fence to such survey.

United States *v.* Fred Howard: Grazing trespass, Manzano National Forest. Judgment paid in part, and execution issued to collect remainder.

Law Cases in District 4—

United States *v.* A. E. Brinegar: Grazing trespass, Sawtooth National Forest. Case closed on payment of $78.75, actual damage.

United States *v.* R. S. Gulley: Grazing trespass, Minidoka National Forest. Case closed on payment of $22.50.

United States *v.* Joseph Bergeson: Timber trespass, Cache National Forest. Defendant was arraigned, entered plea of guilty and fined $15. Fine paid and case closed.

United States *v.* Etchecahar & Co.: Grazing trespass, Salmon National Forest. Case closed on payment of $145.20.

United States *v.* Charles Curtis: Fire trespass, Idaho National Forest. Case dismissed by United States attorney.

United States *v.* Jean P. Pons: Grazing trespass, Cache National Forest. Case closed on payment of $136.62.

Law Cases in District 5—

United States *v.* J. P. Lucas: Grazing trespass, Lassen National Forest. Payment of $16.80 received in full settlement and case closed.

United States *v.* J. J. Fleming: Grazing trespass, Plumas National Forest. Payment of $158.33 received in full settlement and case closed.

United States *v.* E. M. Null: Grazing trespass, Lassen National Forest. Payment of $12.60 received in full settlement and case closed.

United States *v.* Roy Mayes: Grazing trespass, Modoc National Forest. Payment of $285 received in full settlement and case closed.

United States *v.* C. H. Fee: Grazing trespass, Modoc National Forest. Payment of $133 received in full settlement and case closed.

United States *v.* P. H. Green: Grazing trespass, California National Forest. Payment of $60 received in full settlement and case closed.

United States *v.* Finnell Bros.: Grazing trespass, California National Forest. Payment of $60 received in full settlement and case closed.

United States *v.* Antone Nunes: Grazing trespass, Lassen National Forest. Payment of $30.60 received in full settlement and case closed.

United States *v.* H. A. Guernsey: Timber trespass, Angeles National Forest. Payment of $187.57 received in full settlement and case closed.

United States *v.* Mrs. Martha E. Page: Grazing trespass, Modoc National Forest. Payment of $79.92 received in full settlement and case closed.

United States *v.* W. J. Davis and Henry Hulett: Fire trespass, California National Forest. Both defendants convicted. Davis fined $750 or four months' imprisonment and Hulett fined $200 or 30 days' imprisonment. Fines paid in full.

Law Cases in District 6—

Willamette Valley Lumbermen's Association *v.* Southern Pacific Co., United States Department of Agriculture intervenor. Order of Interstate Commerce Commission of October 24 granting complainant's petition, thereby removing differential of from 6 to 13 cents against lumber shipped from Willamette Valley points to points east of Missoula, Mont., on the Great Northern, Northern Pacific, and St. Paul Railways. Case closed.

United States *v.* A. E. Arneson: Fire trespass, criminal, Okanogan National Forest. Information filed December 2, 1918.

United States *v.* E. J. Wigal: Fire trespass, Columbia National Forest. Case closed October 3, 1918, on receipt of notice from United States attorney of payment of $72.93.

United States *v.* A. E. Penny: Grazing trespass, criminal, Rainier National Forest. Information filed October 23, 1918.

United States *v.* Spiroplos Bros.: Grazing trespass, Minam National Forest. Payment received for $246 actual, and $50 punitive damages Case closed October 3, 1918.

United States *v.* Dobbin & Huffman: Grazing trespass, Wallowa National Forest. Case closed September 30, 1918, on receipt of payment of $108.54 actual damages.

United States *v.* Ben Colvin: Grazing trespass, Umatilla National Forest. Case closed November 15, 1918, on receipt of $25 actual and $50 punitive damages.

United States *v.* Ukiah Stock Co.: Grazing trespass, Umatilla National Forest. Case closed September 9, 1918, on receipt of payment of $5.04 actual and $50 punitive damages.

United States *v.* Hilbert & Sons: Grazing trespass, Umatilla National Forest. Case closed September 9, 1918, on receipt of $6.84 actual and $50 punitive damages.

United States *v.* W. M. Mulvaney: Timber trespass, Oregon National Forest. Case closed October 19, on receipt of $24 actual damages.

United States *v.* J. T. Baker: Grazing trespass, Malheur National Forest. Case closed October 30, 1918, on receipt of $144 actual and $250 punitive damages.

United States *v.* Hubert J. Smith: Grazing trespass, Malheur National Forest. Case closed October 14, 1918, on receipt of $231 actual and $250 punitive damages.

United States *v.* H. Hotchkiss: Grazing trespass, Malheur National Forest. Case closed November 2, 1918, on payment of $76.80 actual and $250 punitive damages.

United States *v.* Paul T. Finke: Grazing trespass, Malheur National Forest. Case closed November 25, 1918, on receipt of $39.60 actual and $250 punitive damages.

United States *v.* E. J. Needles: Grazing trespass, Wenaha National Forest. Case closed December 10, 1918, on receipt of $7.70 actual and $25 punitive damages.

United States *v.* S. E. Miller: Grazing trespass, Minam National Forest. Case closed November 1, 1918, on receipt of $37.37 actual and $25 punitive damages.

United States *v.* W. M. Saunders: Grazing trespass, Minam National Forest. Case closed November 26, 1918, on receipt of $11.45 actual and $25 punitive damages.

United States *v.* A. K. Smythe: Grazing trespass, Wenaha National Forest. Case closed December 13, 1918, on receipt of $99 actual damages.

United States *v.* Smythe Bros.: Grazing trespass, Umatilla National Forest. Case closed November 20, 1918, on receipt of $36.75 actual and $25 punitive damages.

United States *v.* J. H. Dills: Grazing trespass, Malheur National Forest. Case closed December 2, 1918, on receipt of $189.60 actual damages.

United States *v.* W. A. Stanton: Grazing trespass, Wallowa National Forest. Case closed December 5, 1918, on receipt of $30 actual damages.

United States *v.* Davien, Michellod Sheep & Land Co.: Grazing trespass, Wallowa National Forest. Case closed December 7, 1918, on receipt of $7.50 actual and $25 punitive damages.

United States *v.* J. H. Dobbin: Grazing trespass, Minam National Forest. Case closed December 23, 1918, on receipt of $31.50 actual and $50 punitive damages.

United States *v.* Jesus Gaubeca and Siberiano Egana: Grazing trespass, criminal, Wallowa National Forest. Information filed November 21, 1918.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 700.—Climate and Plant Growth in Certain Vegetative Associations.

Department Bulletin 711.—Logging in the Douglas Fir Region.

Department Bulletin 718.—Small Sawmills.

Department Bulletin 738.—Effect of Grazing upon Western Yellow Pine Reproduction in Central Idaho.

Unnumbered Publication.—A Plan for the Development of the Village of Grand Canyon, Ariz.

Unnumbered Publication.—Area Table.

Unnumbered Publication.—Forestry Laws of New York.

Unnumbered Publication.—Recreation Uses on the National Forests.

Unnumbered Publication.—Report of the Forester, 1918.

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1919

No. 17 Issued April 15, 1919

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

April Field Program. 1919.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.
ALBERT F. POTTER, Associate Forester.
WILLIAM L. HALL, Assistant Forester.
E. A. SHERMAN, Assistant Forester.

D. D. BRONSON, forest inspector.
A. O. WAHA, forest inspector.
G. G. ANDERSON, assistant to the Forester.
MAINTENANCE.—BILLIE I. SHANNON, in charge.
STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS, in charge.
SUPPLIES.—S. L. MCLAURIN, property clerk.
EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.
SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.
PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, assistant forester, in charge; CLINTON G. SMITH, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; F. W. Rane, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; ———, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; W. A. Nevin, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. H. Nash, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, acting in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA, HENRY E. SURFACE (on detail); FRANKLIN H. SMITH, A. H. PIERSON; collaborator, A. B. STROUGH, Albany, N. Y. HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, E. H. Frothingham; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relations Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; Don P. Johnston, assistant district forester; H. D. Tiemann, dry-kiln specialist; P. R. Hicks, engineer in forest products.

Publication of Results.—Charles R. Thomas, in charge; Samuel Morell, jr.; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

PULP AND PAPER.—OTTO KRESS, in charge; H. E. Surface (on detail, Washington office); Sidney D. Wells, V. P. Edwardes, C. L. Bachelder, John A. Mitchell.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, J. S. Mathewson, G. E. Heck, Armin Elmendorf, H. S. Grenoble, R. Crane, R. P. A. Johnson, J. O. Bixby, R. F. Luxford, C. A. Plaskett, H. J. Rosenthal, S. Schwartz, J. R. Watkins, L. A. Welo, P. M. Wirka, H. D. Frary, C. B. Norris, Frank C. Milliman, John M. Gahagan.

Box Tests.— ———, in charge; L. R. Morris, J. B. Frear, L. P. Elliott, A. F. McDuffie.

TIMBER PHYSICS.—ROLF THELEN, in charge; C. V. Sweet, A. Koehler, Eloise Gerry, C. W. Gould, M. C. Jensen, Lawrence V. Teesdale, D. R. Brewster, J. L. Brownlee, Nils B. Eckbo, James D. Studley, W. Karl Loughborough, Gertrude Griffin.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; George M. Hunt, Matthew E. Dunlap, Shirley W. Allen, Alfred C. Lindauer, Frederick L. Browne, Samuel Butterman, T. R. Truax, R. A. Colgan, C. K. Cooperider, Clarence Coye, J. D. MacLean.

Propeller Tests.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, Carl A. Menzel, T. J. Medicielo.

LUMBER STUDIES.— ———, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).— C. J. HUMPHREY, in charge; N. O. Howard, C. Audrey Richards, Rose Lichtenwalter.

LABORATORY OPERATION.—J. D. DEIHL, administrative assistant; Charles P. Juckem, executive clerk; Edward P. Ancona, deputy forest supervisor.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson, assistant engineer in forest products.

Photography.—M. E. Diemer, chemist in forest products.

Computing.—H. T. Burgess, computing specialist.

Library.—Miss S. D. Kinney.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, H. P. Burden, J. D. Harris, R. K. Helpenstine, jr.

ENGINEERING.

O. C. MERRILL, chief engineer, in charge.

ROADS.—T. W. NORCROSS, assistant chief engineer, in charge.

WATER POWER.—RALPH R. RANDELL, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge (temporarily on detail to Denver); C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—T. S. BROCK.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER (on detail to Denver).

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham,

N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah Area, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, W. J. Damtoft, Asheville, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, S. L. Corbin, forest assistant (in charge of party), Moulton, Ala.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge; Harold G. Wood, national forest examiner, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Carl F. Muzzey, Harrisonburg, Va.; Nantahala Area, J. W. Fox, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson and Walter H. Sullivan, Marion, N. C.; Pisgah Area, James Denman, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Clayton, Ga.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Moulton, Ala.; John W. Van Hoy, Mena, Ark.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; C. C. DELAVAN, fire protection.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—C. B. BAKER, administrative assistant. Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.— ———.

RESEARCH.— ———.

JAMES R. WEIR, consulting pathologist; E. E. HUBERT, assistant, 408 Columbia Building, Spokane, Wash.

GRAZING.—C. H. ADAMS, assistant district forester; BURR W. CLARK, executive assistant.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE, mineral examiner.

SETTLEMENT.— ———.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—F. E. THIEME, in charge.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU).

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. L. Billings, lumberman; James H. Hull, forest examiner.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); F. J. Jefferson, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental).

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); A. M. Baum, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU).

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P); W. W. Weber, deputy forest supervisor; W. C. Latane, forest examiner.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, deputy forest supervisor; C. S. Webb, scaler.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU).

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU); W. J. Derrick, deputy forest supervisor.

Kootenai.—C. M. STEVENS, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P).

Madison.—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU).

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P).

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

Kaniksu.—H. R. FLINT, forest supervisor, Newport (WU via Priest River–Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; W. I. HUTCHINSON, information; PETER KEPLINGER, education.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer; ARTHUR M. COOK, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forest examiner in charge; C. A. DAHLGREN, lumberman.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge; JESSE M. MANN, grazing assistant.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—F. E. BONNER, acting district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—C. B. GOSORN, acting.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—F. E. BONNER, in charge; R. M. GUMAER, inspector.

WATER POWER.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap. Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU); H. H. RICHMOND, forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); Wallace J. Pearce, deputy forest supervisor.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); Robert H. Easterbrooks, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).

Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P); Carl M. Stanley, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU).

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—A. F. C. HOFFMAN, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU); Willard C. Hassel, forest examiner.

Uncompahgre.—J. W. LOWELL, Jr., forest supervisor, Delta (WU); Harold L. Borden, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); L. E. Hitchcock, forest examiner; Earl W. Tinker, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Louis E. Coughlin, deputy forest supervisor; Andrew Hutton, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; WARD SHEPARD, forest examiner, educational cooperation, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ROBERT L. DEERING, forest examiner, acting in charge of operation.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; JOHN H. ALLISON and QUINCY RANDLES, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—R. R. HILL and M. W. TALBOTT, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING, forest examiner.

ENGINEERING.—C. A. LONG, district engineer; LEE C. DAVES, assistant engineer.

MAPS AND SURVEYS.—LEE C. DAVES, in charge.

Drafting.—F. E. LANDON.

Entry Surveys.—FRANK D. YOST, surveyor.

ROADS.—C. A. LONG, in charge.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P).

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P); Leonard R. Lessel and James W. Girdner, national forest examiners.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P); Kenner C. Kartchner, deputy forest supervisor.

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor; Williams (WU, P); Francis L. W. Grubb, deputy forest supervisor.

NEW MEXICO.

Carson.— ———, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; F. J. RYDER, national forest examiner, executive assistant; JAMES E. SCOTT, national forest inspector; ELMER C. ROSS, telephone construction.

MAINTENANCE.—JAMES E. SCOTT.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. Fetherolf, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—HOMER E. FENN, assistant district forester; ERNEST WINKLER, inspector of grazing; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—MARK ANDERSON, D. A. SHOEMAKER, and T. B. NICHOLS, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge; F. S. Baker, forest examiner, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.
Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.
Cache.—See Utah.
Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU); G. G. Henderson, deputy forest supervisor.
Challis.—DAVID LAING, forest supervisor, Challis (WU).
Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).
Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).
Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.
Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.
Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Clinton M. Mangun, deputy forest supervisor.
Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU); Leslie E. Dodge, deputy forest supervisor.
Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney and Ernest A. Renner, deputy forest supervisors.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.
Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.
Dixie.—WM. M. MACE, forest supervisor, St. George (WU).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
La Sal.—CHAS. DEMOISY, Jr., forest supervisor, Moab (WU).
Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU).

Sevier.— ———, forest supervisor, Panguitch (WU); Wallace M. Riddle, acting forest supervisor.

Uinta.— ———, forest supervisor, Provo (WU); R. D. Garver, forest examiner.

Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor; Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.

Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

COERT DUBOIS, district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—R. HEADLEY, assistant district forester, CLARENCE WILEY, national forest inspector.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

LAW ENFORCEMENT.—C. L. HILL, forest examiner in charge. Field Investigations, C. V. BRERETON, national forest examiner.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—S. B. SHOW, E. N. MUNNS, C. A. KUPFER.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

MAPS AND SURVEYS.—PERCY L. DAY.

Drafting.—R. E. L. BORGFELDT.

ROADS.—J. C. DORT, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, Escondido (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—S. W. WYNNE, forest supervisor, Bakersfield (WU); F. P. Cunningham, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery: Roscoe Weaver, forest examiner.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant—Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU).

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Minden (WU).

Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector; W. B. OSBORNE, Jr., forest examiner, fire protection; T. M. TALBOTT, fire trespass.

MAINTENANCE.—H. G. WHITNEY.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, and G. A. BRIGHT, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL and W. H. LEVE forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION (ALASKA).—ASHER IRELAND and WELLMAN HOLBROOK.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT and E. R. JOHNSON, surveyors.

RECREATION.—FRED W. CLEATOR, deputy forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

ENGINEERING.—P. H. DATER, district engineer.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.—R. H. ROBERTSON.

Surveys.—JAMES FRANKLAND.

ROADS.—H. L. PLUMB and CECIL A. LORD.

WATER POWER.—P. H. DATER.

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; T. J. STARKER, forest examiner, Portland; C. W. ZIMMERMAN, engineer in forest products, Seattle.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P); T. M. Hunt, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; George L. Drake, forest examiner; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Exp. via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P). Wind River Nursery: R. L. Cline, forest planting assistant in charge, Carson, Wash.

Colville.—C. C. REID, forest supervisor, Republic (WU, P).

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; A. A. Griffin, and O. F. Ericson, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P); E. J. Hanzlik, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, ENGINEERING, } H. O. STABLER, assistant district forester; R. C. HUEY, roads.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester.

GRAZING, LANDS, } F. W. REED, assistant district forester; W. F. HILL, land classification.

NATIONAL FORESTS.

ALABAMA.

Alabama.—SAM'L. L. CORBIN, forest assistant in charge, Moulton.

ARKANSAS.

Arkansas.—JOHN L. COBBS, Jr., forest supervisor, Hot Springs (WU, P); Chas. A. Plymale, deputy forest supervisor; E. L. Lindsey, forest examiner, timber sales.

Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens, Tenn. (WU, P).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton (WU, P); E. J. Mead, forest examiner, timber surveys.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); J. St. J. Benedict, forest examiner, timber sales; W. J. Damtoft, forest examiner.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See Georgia.

TENNESSEE.

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest examiner in charge, Johnson City (WU, P).

Cherokee.—See Georgia.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P); S. H. Thompson, forest examiner.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Austin F. Hawes, extension specialist in forestry.

LABORATORY.—Leroy P. Elliott and Herbert S. Grenoble, industrial specialists in forest products; Benjamin L. Nelson and Clyde A. Plaskett, assistant engineers in forest products; Samuel Butterman, assistant chemist in forest products; Charles R. Thomas, assistant in utilization of technical data.

DISTRICT 1.—Harold R. Richards, Lolo; Arthur J. Halvorson, Flathead; Frank S. Pitt, Selway; Paul H. Gerrard, Clarwater; forest rangers. Karl J. George, Coeur d'Alene; A. M. Caisse (reinstatement), St. Joe, forest clerks. Sarah Shockey, messenger; Jessie L. Patten, clerk (stenographer and typewriter); William G. Wahlenberg, forest assistant; Etta Brechbill, draftsman (copyist, topographic).

DISTRICT 2.—Warner Tyler, White River, forest clerk. Mary B. Hughes, Gunnison; Rose Katz, Montezuma, clerks (stenographers and typewriters). Ernest M. Davis, Harry J. King, and Roy E. Wible, Arapaho; Anthony C. Clements and George A. Price, Black Hills; James A. Hodges and Arthur L. Mills, Gunnison; Reed A. Higby, Hayden; William S. Brown, William Neuswanger, and Galatia M. Sprague, Holy Cross; Frank E. Henry, Medicine Bow; Clyde L. Breckenridge and John A. Sharp, San Isabel; Arthur E. Cole and Charles W. Frost, San Juan; Robert W. McDonald and George A. Powell, White River, forest rangers. Phyllis I. Dennee, draftsman (copyist, topographic); William P. Pagett, photostat foreman; Harry W. Elofson, forest ranger.

DISTRICT 3.—George Leonidus Haynes, Apache; Arthur William Pigott and Arthur B. Young, Coronado; Hugh E. Chipman, John J. Gualrapp, and Charles P. Smith, Datil; Frank Hiler, Jay R. McLure, and John Ray Painter, Gila; Eddy E. Hudman (reinstatement) and Barnard A. Hendricks, Lincoln; Oscar J. Williams, Santa Fe; George G. Curry, Tonto; Sherman B. Moore, Tusayan; Robert Scott Bingham, Grand Canyon, forest rangers. Mrs. Ethel Anderson (by transfer from War Department), Gila; Josephine C. Cunningham, Santa Fe, clerks (stenographers and typewriters). Ina B. Wright, Tonto, clerk (typewriter); Dorris Claire Hooppaw, Lucy D. Slaughter, and Virginia Simmons, clerks (stenographers and typewriters); Doris S. Pineau, draftsman (copyist, topographic).

DISTRICT 4.—Ennis R. Miller, Bridger; Sterling R. Justice, Cache; Lewis G. Mathews, Caribou; Wallace H. Adair, Kaibab; Ralph A. Taylor, La Sal; Don Mayo Casterlin and Carl S. Kennedy, Salmon; Earle W. Harris, Charles S. Horel, and Roy H. McDougal, Teton; William H. Staker, Wasatch; Ethel H. Fears, Weiser, forest rangers. Mabel M. Sturgis, Minidoka, forest clerk. Ruth B. Goodrich, Cache; Addie Gottfredson, Powell, clerks (stenographers and typewriters).

DISTRICT 5.—Walter E. Jotter, Plumas; George O. L. Estabrook, Shasta, forest rangers. Roscoe B. Weaver, Shasta, forest examiner; Roy H. Blood, Sierra, clerk (stenographer and typewriter).

DISTRICT 6.—Axel W. Erickson (reinstatement), Columbia; Wellman Holbrook, Tongass; Robert H. Harper (reinstatement), Wallowa; Frank W. Mattson (reinstatement), Whitman, forest rangers. Gerald H. Wenner, Chelan, forest clerk; Margaret M. Peterson, clerk (detail in office of the secretary of the eleventh civil-service district, Seattle, Wash.). Victor H. W. Flach, draftsman (copyist, topographic); Theodore P. Flynn, draftsman (topographic); Marian E. Glasscock, Lillian R. Howatt, Esther B. Deckman, clerks (stenographers and typewriters).

DISTRICT 7.—Jerry M. Jordan, Florida; Hugh R. Moore, Ozark, forest rangers.

PROMOTED IN RANK.

DISTRICT 1.—William L. Baldwin, Sioux, forest assistant to forest examiner; Fred E. Thieme, surveyor to assistant district engineer.

DISTRICT 2.—William L. Barker, jr., forest ranger to surveyor; Jesse M. Mann, forest ranger to grazing assistant. James C. Jensen, Medicine Bow, forest ranger to scaler.

DISTRICT 6.—Charles T. Beach, deputy forest supervisor, Siuslaw, to forest supervisor, Chugach; Roland L. Cline, Columbia, forest ranger to forest planting assistant; John D. Holst and George H. West, Crater; Stephen A. Moore, Siskiyou; Lonzo D. Hurt, Snoqualmie; Francis A. Varo, Wenatchee; Earl H. McArdle, Olympic, forest rangers to scalers. Charles J. Conover, forest assistant to forest examiner.

DISTRICT 7.—W. Elston Hedges, Natural Bridge, forest ranger to national forest examiner.

CHANGE IN DESIGNATION.

DISTRICT 2.—Alve L. Richey, Routt, deputy forest supervisor to forest ranger.

DISTRICT 3.—Carrie V. Stuck, Coronado, clerk (stenographer and typewriter) to forest clerk.

DISTRICT 4.—Robert W. Strong, Idaho, clerk (typewriter) to forest ranger.

DISTRICT 6.—Harold D. Foster, deputy forest supervisor to forest examiner; Thomas M. Hunt, forest supervisor, Chugach, to deputy forest supervisor, Siskiyou.

DISTRICT 7.—Rudolph Dieffenbach, forest supervisor to forest examiner.

RESIGNED.

ACQUISITION.—George F. Greenleaf, forest assistant.

LABORATORY.—Olenus L. Sponsler, wood technologist; Henry J. Hegel, assistant in lumbering; Harry M. Hale and William W. Morris,

industrial examiners in forest products; Harold M. Mayo, assistant chemist in forest products; Frank J. Hallauer and Charles E. Dennis, jr., assistant engineers in forest products.

DISTRICT 1.—Emory L. Marlow, Lewis and Clark; Fred N. Thomson, Jefferson; Frank Foster, Beartooth, forest rangers; Georgia Hollier, Gallatin; Nellie C. Short, Coeur d'Alene, clerks (stenographers and typewriters); Eugene D. Gardner, mineral examiner; Joseph W. Streit, forest ranger; Fay G. Clark, Lenthall Wyman, forest examiners.

DISTRICT 2.—William Wiehe, Black Hills, deputy forest supervisor; Alfred P. Larson, Bighorn, forest clerk; Frank R. Olds, Black Hills; John W. Boyd, San Isabel; Chauncey D. Noble, Shoshone; John H. Pritchard, Uncompahgre; George R. Ziegler, White River, forest rangers. H. Ellis Sealing, draftsman (topographic).

DISTRICT 3.—Ellis W. Lund, Apache; Arthur H. Zachau, Coconino; Willard Z. Lyons, Lincoln; Franklin H. Owens, Sitgreaves, forest rangers. Elliot S. Barker, Carson, forest supervisor; Lorenzo B. Maxwell, Coconino, deputy forest supervisor; Thorvald S. Hansen, Fort Valley Experiment Station, forest assistant.

DISTRICT 4.—Bernard E. Mattsson, Manti; Adolph W. Jensen, Uinta, forest supervisors. Frank Hedrick, Boise; Ernest W. Herbert, Fillmore; James M. Ryan, Humboldt; Harmon A. Shannon, Payette; George R. Ashton, Salmon; Clayton F. Brower and John V. Manwill, Uinta; William S. Kalbaugh, forest rangers. Harrold C. Haglund, Humboldt; Otto H. Tschanz, Lemhi, forest clerks. Emily R. Bundy, clerk (stenographer and typewriter).

DISTRICT 5.—John E. Zollers, Mono; Alfred R. Ratcliff, Plumas, forest clerks. Joseph E. Elliott, Stanislaus; William D. Campbell, Tahoe, forest rangers.

DISTRICT 6.—James Allen, Tongass; Dee Wright, Oregon, forest rangers. Stanton G. Smith, Snoqualmie, forest supervisor. Jane L. Curtis, clerk (stenographer and typewriter); Mrs. Frances Wilson, forest clerk; Howard B. Oakleaf, forest examiner.

DISTRICT 7.—William B. Boyes, Arkansas; Troy A. Simpkins, Wichita, forest rangers. Webb Hollingsworth, Pisgah, assistant forest ranger.

With deep regret announcement is made of the death of E. D. Crittenden, scaler, France, October 15; Harry A. Chamberlain, forest ranger, Tonto, October 17; Jack L. Oquin, forest ranger, Salmon, December 26; Joseph M. Daly, forest ranger, Coronado, January 22; Charles O. Leonard, forest ranger, Modoc, January 27; E. C. Rogers, forest examiner, district 1, February 11; Ray L. Greathouse, forest ranger, Jefferson, March 12.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1918, which will be issued probably in May, 1919, is allotted to the Forest Service for its members. Copies will be supplied as in former years to district foresters and supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Great Northern Railway Co. (Stillwater fire): Fire trespass, civil, Blackfeet National Forest. Case closed January 20, 1919, upon payment by trespasser of $911.65, the cost of extinguishing the fire and the value of the timber destroyed.

United States *v.* John Johnson and John Battle: Occupancy trespass, criminal, stealing Government property, Flathead National Forest. Defendant indicted in Federal court. Pleaded guilty and fined $100 each. Case closed.

United States *v.* Klochmann Brothers: Grazing trespass, civil, Pend Oreille National Forest. Case closed upon payment of $45, value of forage consumed.

United States *v.* Gene McCarthy, grazing trespass, civil, Helena National Forest. Case closed upon payment of $75, value of forage consumed.

United States *v.* Gene McCarthy, grazing trespass, civil, Helena National Forest. Case closed upon payment of $27.80, value of forage consumed.

United States *v.* Gene McCarthy, grazing trespass, civil, Helena National Forest. Case closed upon payment of $48.33, value of forage consumed.

United States *v.* Gene McCarthy, grazing trespass, civil, Helena National Forest. Case closed upon payment of $46, value of forage consumed.

United States *v.* Matt Polish, grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of $23.33, value of forage consumed.

United States *v.* Spokane Ranch & Water Co., grazing trespass, civil, Helena National Forest. Case closed upon payment of $36.28, value of forage consumed.

United States *v.* Weber Logging & Timber Co., fire trespass, civil, Coeur d'Alene National Forest. Case closed upon payment of $27.52, damage done to timber.

Law Cases in District 2—

United States *v.* Jose Espinosa: Grazing trespass, Rio Grande National Forest. Case closed upon payment of $37.50 actual damages.

United States *v.* H. G. Marvin: Grazing trespass, civil, Shoshone National Forest. Defendant confessed judgment, which was paid in full in the sum of $205.60, and costs amounting to $24.07.

United States *v.* H. G. Marvin: Grazing trespass, criminal, Shoshone National Forest. Defendant pleaded guilty and was fined $5 and costs; costs amounted to $71.95. Fine and costs paid.

United States *v.* Bighorn Land & Cattle Co.: Occupancy trespass, Hayden National Forest. Bill of complaint prepared and referred to United States attorney.

United States *v.* Chicago & North Western Railroad Co.: Fire trespass, Black Hills National Forest. Bill of complaint filed.

United States *v.* Colorado, Wyoming & Eastern Railroad Co.: Fire trespass, Medicine Bow National Forest (Wyoming district). Compromise settlement accepted and draft for $3,435.95 in settlement of damages forwarded to Solicitor of the Treasury. Costs in the sum of $34.41 paid.

United States *v.* Colorado, Wyoming & Eastern Railroad Co.: Fire trespass, Colorado National Forest (Colorado district). Compromise settlement accepted and draft for $3,819.29 in settlement of damages forwarded to the Solicitor of the Treasury. Costs in the sum of $40.90 paid.

United States *v.* John Bebington: Grazing trespass, Harney National Forest. Judgment rendered in the sum of $150 and costs, $29.05; $150 paid and United States attorney recommends that judgment be satisfied without the payment of costs.

United States *v.* Fall River Power Co.: Occupancy trespass, Pike National Forest. Answer to complaint filed February 8, 1919.

United States *v.* Charles Hidley: Occupancy trespass, Bighorn National Forest. Decree entered enjoining and restraining defendant from occupying the land. Damages awarded in the sum of $54 and costs $43.41.

United States *v.* Fred Jackson and Emmet Pyle: Property trespass (criminal), Rio Grande National Forest. Upon recommendation of this department, Attorney General directed the United States attorney to nolle pros the case.

United States *v.* J. A. Koen: Timber trespass, Montezuma National Forest. Bill of complaint filed.

Law Cases in District 3—

United States *v.* J. H. T. Cosper: Grazing trespass, Apache National Forest. Case closed on payment of $121.25, actual damages.

United States *v.* D. J. Cox: Grazing trespass, Coronado National Forest. Case closed on payment of $21.60, actual, and $30, punitive, damages.

United States *v.* M. N. Davidovich: Grazing trespass, Coronado National Forest. Case closed on payment of $6.60, actual damages.

United States *v.* Jose Fram: Grazing trespass, Santa Fe National Forest. Case closed on payment of $40, actual damages.

United States *v.* W. E. Morgan: Grazing trespass, Tusayan National Forest. Case closed on payment of $33, actual damages.

United States *v.* Mrs. Lou Piper: Grazing trespass, Crook National Forest. Case closed on payment of $37.42, actual damages.

United States *v.* Sanford Rowe: Grazing trespass, Tusayan National Forest. Case closed on payment of $115.60, actual damages.

United States *v.* Chambers & Newman: Grazing trespass, Prescott National Forest. Case closed on payment of $14.34, actual damages.

United States *v.* Walter Hill: Grazing trespass, Lincoln National Forest. Case closed on payment of $27.20, actual, and $25, punitive, damages.

United States *v.* W. W. Perkins: Grazing trespass, Prescott National Forest. Case closed on payment of $103.79, actual, and $50, punitive, damages.

United States *v.* D. H. Ritter: Grazing trespass, Tusayan National Forest. Case closed on payment of $45.33, actual damages.

United States *v.* J. S. Sanchez: Grazing trespass, Carson National Forest. Case closed on payment of $63, actual damages.

United States *v.* Clark & Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $47.58, actual damages.

United States *v.* Henry F. Jordan: Grazing Trespass, Carson National Forest. Case closed on payment of $54.15, actual damages.

United States *v.* B. F. Sweetwood: Grazing trespass, Tusayan National Forest. Case closed on payment of $135.10, actual damages.

United States *v.* A. H. Noon, sr.: Grazing trespass, Coronado National Forest. Case closed on payment of $54, actual damages.

United States *v.* E. B. Perrin: Grazing trespass, Tusayan National Forest. Case closed on payment of $36.64, actual damages.

United States *v.* H. S. Perry: Grazing trespass, Tusayan National Forest. Case closed on payment of $19.50, actual damages.

United States *v.* Clark & Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $67.50, actual damages.

United States *v.* John Hennessy: Grazing trespass, Prescott National Forest. Case closed on payment of $13.45, actual damages.

United States *v.* James A. Carey: Grazing trespass, Mazano National Forest. Demurrer to cross complaint in answer of defendant argued, and sustained.

United States *v.* Fred Howard: Grazing trespass, Manzano National Forest. Judgment of $22.50, actual damages, with 63 cents interest, and costs of $275.95 collected by United States marshal.

United States *v.* Epifanio Ortiz: Grazing trespass, Apache National Forest. Contempt proceedings dismissed after sale of goats, and removal of trespasser from the forest.

United States *v.* William C. Bell: Grazing trespass, Apache National Forest. Complaint filed with application for preliminary and permanent injunction and damages.

United States *v.* Carl Washburn: Grazing trespass, Coronado National Forest. Complaint filed with application for preliminary and permanent injunction and damages.

United States *v.* Joe Stephens: Fire trespass (criminal), Lincoln National Forest. Case dismissed January 8 by United States attorney for insufficient evidence, and on further ground that defendant had been sufficiently punished, having been in jail awaiting trial many months.

United States *v.* Estenbun Munios: Grazing trespass (criminal), Tusayan National Forest. Complaint filed with United States attorney. Warrant issued, but defendant not yet apprehended.

United States *v.* State Investment Co.: Occupancy trespass, Santa Fe National Forest. Mora Grant Boundary Case. Argued before Judge Neblett February 17 and 18, 1919.

United States *v.* B. B. Polk: Grazing trespass, Lincoln National Forest. Case closed on payment of $197.47, actual damages.

Law Cases in District 4—

United States *v.* Myron Nay: Occupancy trespass, Fillmore National Forest. Defendant enjoined from further occupancy of national forest land and has moved from the premises.

United States *v.* Neal McMillan: Grazing trespass, Fishlake National Forest. Case closed on payment of $383.16 actual damages.

United States *v.* William Jones: Grazing trespass, Minidoka National Forest. On filing of suit trespasser paid $1,998, of which $1,398 was actual damages and $600 punitive damages and costs.

United States *v.* R. J. Day: Grazing trespass, Minidoka National Forest. Case closed on payment of $74.25 actual and $25 punitive damages.

United States *v.* W. G. Davis: Grazing trespass, Caribou National Forest. Suit dismissed on payment of $741.28 actual and $100 punitive damages.

United States *v.* J. E. Rawson: Grazing trespass, Cache National Forest. Case closed on payment of $33.60 actual damages and $6.50 costs.

United States *v.* E. B. Stratton: Grazing trespass, Minidoka National Forest. Judgment rendered for $154.74.

United States *v.* C. H. Ogee: Grazing trespass, Sawtooth National Forest. Judgment rendered for $50 damages and $24.20 costs.

United States *v.* Jessie Labrum: Grazing trespass, Ashley National Forest. Case closed on payment of $10 actual damages.

United States *v.* Thornton and Leonard Young: Grazing trespass, Caribou National Forest. Case closed on payment of $75.50 actual damages.

United States *v.* L. M. Wright: Grazing trespass, Caribou National Forest. Case closed on payment of $15 actual damages.

United States *v.* J. P. Pons: Grazing trespass, Cache National Forest. Case closed on payment of $112 actual damages.

United States *v.* C. W. Mitchell: Grazing trespass, Humboldt National Forest. Case closed on payment of $10.28 actual damages.

United States *v.* M. H. Whitaker: Grazing trespass, Fillmore National Forest. Case closed on payment of $15 actual damages.

United States *v.* James Gardner: Grazing trespass, Fillmore National Forest. Case closed on payment of $8 actual damages.

United States *v.* William and J. T. Bryan: Grazing trespass, Wasatch National Forest. Case closed on payment of $22.50 actual damages.

United States *v.* C. G. Turner: Grazing trespass, Nevada National Forest. Case closed on payment of $28.80 actual damages.

United States *v.* L. E. Barney: Grazing trespass, Fillmore National Forest. Case closed on payment of $17 actual damages.

United States *v.* Manuel Gaviola: Grazing trespass, Payette National Forest. Case closed on payment of $15 actual damages.

United States *v.* C. E. Chandler: Minidoka National Forest. Suit for damages on account of breach of timber sale contract. Case closed on payment of $33 costs and $25 in compromise of judgment for $122.11 damages.

United States *v.* H. W. Perham: Timber trespass, Caribou National Forest. Case closed on payment of $11.66 actual damages.

United States *v.* D. L. and Gertrude Gaudelock: Claims, Salt Lake desert entries 04707 and 01689, La Sal National Forest. Canceled by decision of Commissioner of General Land Office.

United States *v.* Emigration Rock Placers: Claims, locations, Wasatch National Forest, by decision of Secretary of the Interior on rehearing, finally declared null and void.

United States *v.* Black Mule Mill Sites, M. E. 010027 Carson: Toiyabe National Forest. Canceled by decision of Commissioner of General Land Office on account of nonuse. Held in this case that development

of water can not be made and protected by mill-site locations under the mining laws.

Law Cases in District 5—

United States *v.* Fred Antchano: Grazing trespass, Mono National Forest. Case closed upon payment of $44.80 to the clerk of the district court.

United States *v.* W. A. Sherlock: Grazing trespass, Modoc National Forest. Case closed upon payment of $29.25, actual damages.

United States *v.* Feather River Lumber Co.: Fire trespass, Plumas National Forest. Case closed upon payment of $354.05, actual damages.

United States *v.* Leon Orcier: Grazing trespass, Inyo and Sierra National Forests. Case closed upon payment of $163.20, actual damages.

United States *v.* R. T. Jenkins: Grazing trespass, Plumas National Forest. Case closed upon payment of $342, actual damages.

United States *v.* Martha E. Page: Grazing trespass, Modoc National Forest. Case closed upon payment of $79.92, actual damages.

United States *v.* Talmadge and Warren: Fire trespass, Angeles National Forest. Case closed upon payment of $6.30, actual damages.

United States *v.* C. B. & O. B. Fuller Co.: Grazing trespass, Mono National Forest. Case closed upon payment of $82.50, actual damages.

United States *v.* Allied Land & Livestock Co.: Grazing trespass, Mono National Forest. Case closed upon payment of $76.50, actual damages.

United States *v.* Joseph Delwisch: Fire trespass, Eldorado National Forest. Case closed upon payment of $7.50, actual damages.

United States *v.* Dr. Thompson: Fire trespass, Stanislaus National Forest. Fined $50.

United States *v.* Robert Potter: Grazing trespass, California National Forest. An information was filed against Robert Potter for illegal grazing. A warrant has been issued for his arrest.

United States *v.* Valentine Simmons: Fire trespass, California National Forest. Defendant plead guilty. Sentenced to 30 days in the Sacramento County jail. (Defendant had already served six months in jail and the sentence was therefore equivalent to seven months.)

United States *v.* Joseph Deal: Fire trespass, Tahoe National Forest. Acquitted. Federal Judge Van Fleet criticized the jury for the acquittal of defendant on the evidence presented.

Law Cases in District 6—

United States *v.* Reliance Lumber Co.: Fire trespass, Rainier National Forest. Trial held in United States District Court for the Western District of Washington, March 11 and 12, resulted in a verdict in favor of the United States for $685.87, representing the amount expended in extinguishing the fire. Damage of $248.91 was eliminated by the jury.

United States *v.* Charles G. Bowers: Property trespass, Deschutes National Forest. Trial occurred in the United States District Court for Oregon March 19. Defendant was acquitted.

United States *v.* A. L. Arneson: Fire trespass, Okanogan National Forest. Defendant pleaded guilty in United States District Court for the Eastern District of Washington February 11, 1919. Fined $100.

United States *v.* Eugene Newman: Fire trespass, Santiam National Forest. Defendant pleaded guilty in United States District Court for Oregon February 24, 1919. Fined $25.

United States *v.* Con Sagrue: Grazing trespass (criminal), Malheur National Forest. Case closed January 8, 1919, on receipt of $100 fine. Defendant pleaded guilty.

United States *v.* Siberiano Egana: Grazing trespass (criminal), Wallowa National Forest. Case closed March 14, 1919, on payment of $50 fine. Defendant pleaded guilty.

United States *v.* Jesus Gaubeca: Grazing trespass (criminal), Wallowa National Forest. Case closed March 14, 1919, on payment of $50 fine. Defendant pleaded guilty.

United States *v.* B. C. Williams: Grazing trespass, Columbia National Forest. Case closed January 15 on payment of $6.48 actual damages.

United States *v.* Nelson Bros.: Grazing trespass (criminal), Colville National Forest. Pleaded guilty January 21, 1919. Fined $50 each. Closed February 5, 1919.

United States *v.* Dan Angland: Grazing trespass, Deschutes National Forest. Closed January 13, 1919, on payment of $65.81 actual damages.

United States *v.* O'Callaghan Bros.: Grazing trespass, Fremont National Forest. Closed February 7, 1919, on payment of $198 actual and $50 punitive damages.

United States *v.* W. K. Verling & Henry Fox: Grazing trespass, Fremont National Forest. Closed February 27, 1919, on payment of $9 actual and $25 punitive damages.

United States *v.* Rector Arnwine: Grazing trespass, Malheur National Forest. Closed March 14, 1919, on payment of $120 actual damages.

United States *v.* C. C. Hankins: Grazing trespass, Malheur National Forest. Closed January 25, 1919, on payment of $6.30 actual and $50 punitive damages.

United States *v.* John Kilkenny: Grazing trespass, Umatilla National Forest. Closed February 5, 1919, on payment of $29.25 actual damages.

United States *v.* Joyce Bros.: Grazing trespass, Malheur National Forest. Closed March 14, 1919, on payment of $45 actual damages.

United States *v.* Scott Lindsay: Grazing trespass (criminal), Malheur National Forest. Plead guilty. Fined $50. Closed January 17, 1919.

United States *v.* Ned Pierce: Grazing trespass, Malheur National Forest. Closed February 25, 1919, on payment of $10.35 actual damages.

United States *v.* George W. Densley: Grazing trespass, Minam National Forest. Closed February 14, 1919, on payment of $51.60 actual and $50 punitive damages.

United States *v.* John G. Hoke: Grazing trespass, Minam National Forest. Closed March 22, 1919, on payment of $56.43 actual and $25 punitive damages.

United States *v.* Blakely Clough & Co.: Grazing trespass, Santiam National Forest. Closed February 5, 1919, on payment of $216 actual damages.

United States *v.* Jay H. Dobbin: Grazing trespass, Wallowa National Forest. Closed March 22, 1919, on payment of $63.63 actual damages.

United States *v.* J. M. Cotrill: Grazing trespass, Wenaha National Forest. Closed January 17, 1919, on payment of $8.77 actual and $15 punitive damages.

United States *v.* W. W. Rice: Grazing trespass, Wenaha National Forest. Closed February 7, 1919, on payment of $13.76 actual damages.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 741.—Effect of Grazing upon Aspen Reproduction.

Department Bulletin 745.—Chopped Soapweed as an Emergency Feed for Cattle on Southwest Ranges.

Department Bulletin 753.—The Use of Wood for Fuel.

Department Bulletin 758.—Pulpwood Consumption and Wood-Pulp Production, 1917.

Department Bulletin 768.—Production of Lumber, Lath, and Shingles in 1917.

Circular 129, Office of the Secretary.—Private Forestry.

Unnumbered Publication.—What the National Forests Mean to the Water User.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[April, 1919.]

[Numbers in parentheses after the month indicate page.]

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Incorporation of Branch of Operation into Office of the Forester—Service Order 48; July (27).
Injunction proceedings, district 2; Oct. (62).
Obtaining money under false pretenses, district 1; Jan. (93).
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Order removing differential on lumber shipped, district 6; Jan. (96).

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1919

No. 18 Issued July 15, 1919

UNITED STATES DEPARTMENT OR AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

July Field Program, 1919.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.
WILLIAM L. HALL, Assistant Forester.
E. A. SHERMAN, Assistant Forester.

D. D. BRONSON, forest inspector.
G. G. ANDERSON, assistant to the Forester.
MAINTENANCE.—BILLIE I. SHANNON, in charge.
STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS, in charge.
SUPPLIES.—S. L. MCLAURIN, property clerk.
EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.
SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.
PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, forest inspector, in charge; R. Y. STUART, and CLINTON G. SMITH, forest inspectors; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; F. W. Rane, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; ———, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. H. Nash, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.; G. M. Homans, State forester, Sacramento, Calif.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA; FRANKLIN H. SMITH, A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.; STANLEY L. WOLFE; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, E. H. Frothingham; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relations Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; P. R. Hicks, engineer in forest products.

Publication of Results.—Rolf Thelen, acting, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

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Box Tests.—————, in charge; J. B. Frear, L. P. Elliott.

TIMBER PHYSICS.—ROLF THELEN, in charge; C. V. Sweet, A. Koehler, Miss Eloise Gerry, M. C. Jensen, Lawrence V. Teesdale, D. R. Brewster, Nils B. Eckbo, Miss Gertrude Griffin.

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Propeller Tests.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, Carl A. Menzel.

LUMBER STUDIES.— ———, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Miss C. Audrey Richards.

LABORATORY OPERATION.—J. D. DEIHL, administrative assistant; Charles P. Juckem, executive clerk.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson, assistant engineer in forest products.

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FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, H. P. Burden, J. D. Harris, R. K. Helpenstine, jr.

ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

ROADS.—T. W. NORCROSS, in charge; JOHN L. COBBS, forest examiner.

WATER POWER.—RALPH R. RANDELL, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

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Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow, forest ranger (in charge of party), Moulton, Ala.; Ozark Area, B. F. Vaughan, forest examiner, Russellville, Ark.; Arkansas Area, J. A. Bateman, national forest examiner, Hot Springs, Ark.

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LAW.—A. H. McCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannan, Moulton, Ala.; John W. Van Hoy, Mena, Ark.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

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OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

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RESEARCH.— ———.

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STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—J. B. YULE.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); F. J. Jefferson and F. T. Carroll, fire assistants.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. C. Delavan, fire assistant; C. L. Billings and Philip Neff, lumbermen.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); F. J. Jefferson, deputy forest supervisor; R. N. Cunningham, fire assistant.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor; F. J. Klobacher, fire assistant.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental); A. S. Hauge, lumberman.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); A. M. Baum, deputy forest supervisor.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. Price Townsend, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P); Mallory N. Stickney, deputy forest supervisor.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman.

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P); W. W. Weber, deputy forest supervisor; W. C. Latane, forest examiner.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, forest supervisor; C. S. Webb, lumberman; Kenneth Wolfe and H. L. Redlingshafer, fire assistants.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU).

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU); A. C. Adams, deputy forest supervisor.

Kootenai.————, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor; C. B. Baker and Clark Miles, fire assistants.

Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).

Lolo.—ELERS KOCH, forest supervisor, Missoula (WU, P).

Madison.—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P).

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

Kaniksu.—H. R. FLINT, forest supervisor, Newport (WU via Priest River-Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner; J. S. Baird, lumberman; G. W. Kitch, fire assistant.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; W. I. HUTCHINSON, information; PETER KEPLINGER, education.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer; ARTHUR M. COOK, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forest examiner in charge; EARL W. TINKER, forest examiner.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge; JESSE M. MANN, grazing assistant.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—C. B. GOSORN, acting.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE, assistant; R. M. GUMAER, superintendent of construction.

WATER POWER.—FRED D. MENDENHALL.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapahoe.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU); H. H. RICHMOND, forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); Robert H. Easterbrooks, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P); Gerald M. Hunter, deputy forest supervisor.

Montezuma.—A F. C. HOFFMAN, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—ARTHUR T. UPSON, forest supervisor, Denver (WU, P); Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU); Alve L. Richey, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU).

Uncompahgre.—J. W. LOWELL, Jr., forest supervisor, Delta (WU); Harold L. Borden, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Chas. L. Cecil, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

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Black Hills.—See South Dakota.

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Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

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LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

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SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; JOHN H. ALLISON and QUINCY RANDLES, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOTT and C. K. COOPERRIDER, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.—LEE C. DAVES, assistant engineer in charge.

Drafting.—F. E. LANDON.

Entry Surveys.—FRANK D. YOST and A. W. HENDRIX, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

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Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

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Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

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Tusayan.—IRA T. YARNALL, forest supervisor, Williams (WU, P); Francis L. W. Grubb and Chester V. Christensen, deputy forest supervisors.

NEW MEXICO.

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Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.

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DISTRICT 4.

INTERMOUNTAIN DISTRICT.

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PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

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MAPS AND SURVEYS.—O. C. LOCKHART, Jr.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS and E. C. ROSS, assistants.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge; F. S. Baker, forest examiner, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

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Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. HENDERSON, acting forest supervisor, Montpelier (WU).

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.

Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.

Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU); Wallace M. Riddle, deputy forest supervisor.

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.

Fishlake.—C. A. MATTESSON, forest supervisor, Salina (WU).

La Sal.—CHAS. DEMOISY, Jr., forest supervisor, Moab (WU).

Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).

Minidoka.—See Idaho.

Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).

Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU); R. D. Garver, forest examiner.

Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor; Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.

Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

COERT DUBOIS, district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; CLARENCE WILEY, national forest inspector.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

LAW ENFORCEMENT.—C. L. HILL, forest examiner in charge. Field Investigations, C. V. BRERETON, national forest examiner.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.— ———.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—S. B. SHOW, E. N. MUNNS, C. A. KUPFER.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; J. S. BOYCE, H. G. LACHMUND, ARTHUR S. RHOADS, R. A. STUDHALTER, N. REX HUNT, assistants.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—PERCY L. DAY, S. N. STONER.

Drafting.—R. E. L. BORGFELDT.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, San Diego (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—S. W. WYNNE, forest supervisor, Hot Springs (WU); F. P. Cunningham, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery; Roscoe Weaver, forest examiner.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant—Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU).
Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).
Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Minden (WU).
Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector; W. B. OSBORNE, Jr., forest examiner, fire protection; H. L. PLUMB, forest examiner, trails.

MAINTENANCE.—H. G. WHITNEY.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, GEO. L. DRAKE, C. J. CONOVER, and G. A. BRIGHT, forest examiners; A. J. JAENICKE, forest examiner on insect control; E. J. HANZLIK, forest examiner on working plan.

PLANTENANCE.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

GRAZING.— E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—T. M. TALBOTT, national forest examiner.

LAND CLASSIFICATION (ALASKA).—ASHER IRELAND and WELLMAN HOLBROOK.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT.

RECREATION.—FRED W. CLEATOR, deputy forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

MINERAL EXAMINATION.—W. N. H. WOODWARD, mineral examiner.

ENGINEERING.—P. H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.— ———.

Surveys.—JAMES FRANKLAND.

ROADS.—P. H. DATER, in charge; CECIL A. LORD.

WATER POWER.—P. H. DATER.

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, assistant engineers in forest products, Seattle.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P); T. M. Hunt, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); H. M. Johnson, forest examiner.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Exp. via Wenatchee); E. O. Blankenship, deputy forest supervisor.

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).

Colville.—C. C. REID, forest supervisor, Republic (WU, P).

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; A. A. Griffin and O. F. Ericson, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—W. G. WEIGLE, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.
OPERATION, ENGINEERING, } H. O. STABLER, assistant district forester; JOHN M. FOX, assistant engineer; R. C. HUEY, roads.
SILVICULTURE.—I. F. ELDREDGE, assistant district forester.
GRAZING, LANDS, } F. W. REED, district forester; W. F. HILL, land classification.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, forest ranger in charge, Moulton.
Arkansas.—E. L. LINDSEY, acting forest supervisor, Hot Springs (WU, P); Chas. A. Plymale, deputy forest supervisor.
Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.
Savannah.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); J. St. J. Benedict, forest examiner; W. J. Damtoft, forest examiner.
Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Franklin, N. C. (WU, P); E. J. Mead, forest examiner.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens, Tenn. (WU, P).

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest supervisor, Johnson City (WU, P).

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P); S. H. Thompson, forest examiner.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

LABORATORY.—Clarence W. Coye, industrial specialist in forest products; Cecil V. Maudlin, assistant engineer in forest products; Galo W. Blanco, Robert B. Lebo, Alfred C. Lindauer, and George G. Towne, assistant chemists in forest products.

DISTRICT 1.—Ira N. Goss, Frank L. House, and Guy O'Neil, Beartooth; Harry H. Halvorson, Lewis and Clark; John M. Brocken, Blackfeet; Arthur D. Moir, Absaroka; Irving R. Jensen, James E. Ready, Henry J. Thol, and Roy T. Mills, Flathead; Charles S. Mathews, Deerlodge; John P. Baldwin and Leland E. Tripp, Kootenai; Sylvester P. Meade, William R. Schofield, and Arthur R. Truman, Beaverhead; Carl J. Simon, Helena; Le Baron M. Beard, Missoula; George H. Hankinson, Lolo; William H. Deasy, Nezperce; Emanual B. Schlette, Pend Oreille, forest rangers. Karl J. George, Coeur d'Alene, clerk. John S. Baird, Kootenai, Adolph G. Hauge, St. Joe; Philip Neff, Coeur d'Alene, lumbermen. Bessie Coyne, Nezperce, forest clerk. Thelma Jensen, Beaverhead, clerk (stenographer and typewriter). Laurence D. Dunn and Edward W. Hartwell, Blackfeet; Wellington I. White, forest assistants. Robert L. Hesse, Kootenai, scaler. Etta Brechbill, draftsman (copyist-topographic). Mary S. Hall and Leonora J. Holmes, clerks (stenographers and typewriters). Grant Higgins and Samuel H. Ketcham, surveyors.

DISTRICT 2.—Gerald M. Hunter (reinstatement), Leadville, forest examiner. Simeon D. Anderson and Lee P. Brown, Gunnison; Earle D. Bailey, Pike, forest assistants. James L. Gibson, Arapaho; Edith C. Lutzke, Michigan; Henry J. Vocate, San Juan, forest clerks. Bertha L. Shakespeare, Rio Grande, clerk (stenographer and typewriter). Maurine J. Griffin, Cochetopa; Earl H. Hitch, Pike, clerks (typewriters). Vance I. Coe, Stanley H. Forrest, Robert L. Peltz, and Marion J. Webber (reinstatement), Black Hills; James C. Maloy, Durango; William Earl Jennings, Rio Grande; Forrest E. Young, Shoshone; Frank Carney, Superior; Eldon W. Hauser (reinstatement), Uncompahgre; Fred Stell (reinstatement), White River, forest rangers. Robert M. Gumaer (reinstatement), superintendent of construction. James P. Reddick (reinstatement), assistant land classifier. Arthur H. Carhart, junior recreational engineer. Sylvander Simms, surveyor (draftsman), Edith R. Mosher (reinstatement), clerk.

DISTRICT 3.—Peter J. Wilson, Apache; Louis F. Cottam and Carroll R. Dwire, Carson; John A. Adams (reinstatement), John Edwin Cook, Homer E. German, and Roy H. Rice, Coconino; Arthur F. McDuffie (transfer) and Lyle B. Smith, Coronado; Lyman H. Taft, jr., Lincoln; Frederick H. Smith (reinstatement) and Raymond Earl Nafziger, Manzano; Richard S. Talioferro, Prescott; Roy Cummins and Andrew L. Rogers, jr., Sitgreaves; Michael J. Doran, Tonto; J. Earl Kintner, Fort Valley Experiment Station, forest rangers. Esther Leone Hunt, Lincoln; Martha M. Vance, Santa Fe, clerks (stenographers and typewriters). Katherine J. Lindsay, Carson; Anna Elizabeth Fraser, Datil, clerks (typewriters). Rafael J. Moya, Santa Fe, unskilled laborer.

DISTRICT 4.—George W. Walkup, Ashley; Orville Shipman, Boise; Henry W. May, Idaho; Joel W. Hiatt, Salmon; Willis B. Kauten, Sawtooth; Francis Moss, Targhee; Perry S. Ashdown, Wyoming, rangers. Maurine Kotter, Cache; Gustav H. Wiese, Fishlake; John A. O'Connell (reinstated), Humboldt; Stephen J. Humeston (by transfer from Indian Service), Idaho; Katherine M. Seelinger, Nevada; Duena Christensen, Sevier; Herbert L. Cox (reinstated), Uinta; Edne M. Hendricks, Mable L. Parker, and Clyde M. Gwin (reinstated), clerks (stenographers and typewriters). Cedric A. Martin and Marshall S. Wright (by transfer from Land Office), surveyors. Joseph W. Tite (reinstated), messenger boy.

DISTRICT 5.—August J. Mueller and Alvin E. Noren, California; William E. Ryan and Fred E. Walker, Cleveland; Franklin F. Noxon and Ernest M. Sutcliffe, Klamath; Harry Garrison, Modoc; Harold T. Williams, Plumas; Karl B. Holley, Santa Barbara; James Leroy Rudy, Sequoia; Lee H. Holland, Sierra; Edwyn H. Markel, Tahoe; Henry W. Atcheson, Mono, forest rangers. Clarence E. Dunston, Lassen, forest supervisor. A. E. Weislander, Lassen, forest examiner. Dagmar H. Vinther, clerk (stenographer and typewriter).

DISTRICT 6.—Charles W. Boyce, Columbia, forest assistant. Ernest C. Peachey, Crater; Stanley C. Walters, Oregon; George O. Langdon, Umatilla; Dick Sullivan, Washington; Floyd W. Kendall, Wenaha, forest rangers. Edith M. McCall, Umatilla, forest clerk. Henry P. Stinson, Seattle Laboratory, assistant in forest products. Luella Thompson Harbord, Alice E. Ure (reinstatement), clerks (stenographers and typewriters). Burt P. Kirkland, collaborator.

PROMOTED IN RANK.

DISTRICT 1.—Francis T. Carroll, Clearwater; Russell N. Cunningham, Nezperce; Guy W. Kitch, Kaniksu; Roy A. Phillips, Lolo; Paul A. Wohlen, Clearwater; Kenneth Wolfe, forest rangers to fire assistants. Charles B. Baker, Kootenai; Carlyn C. Delavan, Coeur d'Alene, forest examiners to fire assistants. Lloyd G. Hornby, Flathead; Frank J.

Jefferson, Clearwater, deputy forest supervisors to fire assistants. Anson B. Hodgins, Lolo; Clyde S. Webb, Flathead, scalers to lumbermen. Howard Drake, Cabinet, forest ranger, and Ulysses S. Swartz, timber cruiser, to lumbermen. Hartley A. Calkins and James B. Yule, draftsmen (surveyor) to assistant engineers. Walter J. Derrick, Madison, deputy supervisor to forest supervisor. Harry G. Ade, Madison, forest ranger to deputy forest supervisor. Adrian C. Adams, Jefferson, forest assistant to deputy forest supervisor.

District 2.—Fred D. Mendenhall, surveyor-draftsman to district engineer. Fred B. Agee, Cochetopa; Ray Peck, Routt, deputy forest supervisors to forest supervisors. Gerald M. Hunter, Leadville, forest examiner to deputy forest supervisor. Alve L. Richey, Routt, forest ranger to deputy forest supervisor. Calvin A. Dahlgren, Superior, lumberman to forest supervisor.

District 3.—William John Anderson, Lincoln; James H. Sizer, Tonto, deputy forest supervisors to forest supervisors. Albert W. Hendrix, forest ranger to surveyor.

District 4.—James E. Scott, national forest inspector to supervisor.

District 6.—Edward O. Blankenship, Chelan, forest ranger to deputy forest supervisor. Earl H. McArdle, Olympic, forest ranger to scaler.

District 7.—Franklin W. Reed, assistant district forester to district forester; John W. Fox, examiner of surveys to assistant engineer; Harold L. Russell, White Top, forest examiner to forest supervisor.

CHANGE IN DESIGNATION.

Research.—Samuel T. Dana, assistant chief forest investigations to forest economist.

Engineering.—John L. Cobbs, forest supervisor to forest examiner.

District 2.—Wallace J. Pearce, Montezuma, deputy forest supervisor to forest examiner.

District 3.—James W. Girdner, Coconino, national forest examiner to deputy forest supervisor. Marie A. Schach, map colorist to draftsman (copyist topographic). Arthur F. McDuffie, industrial examiner in forest products to forest ranger.

District 4.—Vernon O. Maw, Ashley, clerk to forest ranger; Herbert G. McPheters, forest supervisor to national forest examiner; Frank J. Ryder, forest supervisor to national forest examiner.

District 6.—Robert S. Wallace, Cascade, forest examiner to fire assistant. Cecil A. Lord, draftsman (topographic) to surveyor-draftsman.

RESIGNED.

Forester.—George A. Bentley, clerk.

Grazing.—Rudolph L. Hensel, grazing examiner.

Research.—William H. Weber, industrial examiner in forest products.

LABORATORY.—Leslie R. Morris, Samuel Schwartz, James O. Bixby, Harry J. Rosenthal, James D. Studley, assistant engineers in forest products. Samuel Butterman, assistant chemist; Charles R. Thomas, assistant in utilization of technical data; Benjamin J. Keyes, laboratory aid and engineer.

ACQUISITION.—George E. Marshall, timber cruiser; Robert J. Noyes, forest examiner; Harold G. Wood, national forest examiner.

DISTRICT 1.—James H. Hull, Coeur d'Alene; Ernest F. Jones, Kaniksu, forest examiners. William E. Lockhart and Harold E. Worsley, Beartooth; Arnold H. Lynn, Flathead; Arthur U. Stanley, Custer; John A. Morrow, Deerlodge; George E. Owen, Cabinet; John F. Kruse, Lolo, forest rangers. Nellie C. Short, Coeur d'Alene; Nellie Lee Saylor, St. Joe; Hazel Davenport, Kootenai, Helena Smiley, Gallatin; Ella Lovely, clerks (stenographers and typewriters). Antoine M. Caisse, St. Joe, forest clerk. Alice Vezina, Deerlodge, clerk (typewriter). Roscoe G. Willson, Madison, and Carl M. Stevens, forest supervisors. A. Price Townsend, Beaverhead, deputy forest supervisor.

DISTRICT 2.—Alva A. Simpson, Cochetopa; Theodore Shoemaker, jr., Pike, forest supervisors. Lula M. Lansing, Pike, clerk (stenographer and typewriter). John S. Amsden, Black Hills; Clair V. Cooke, Harney; Benjamin H. Lowe, Harney; Ford J. De Haven, Holy Cross; Ira W. Blundell, Leadville; James Real, jr., Montezuma; Don C. La Font, Rio Grande; Clyde L. Breckenridge, San Isabel; Robert E. Clark, jr., Shoshone; John A. Cox, Sopris; Thomas C. Parkinson, Uncompahgre, forest rangers. Charles H. Neel, draftsman (surveyor). Raymond S. Watrous, suveyor-draftsman. Marjorie E. Bunger, clerk (stenographer and typewriter).

DISTRICT 3.—Floyd R. Wigely, Apache; Ira K. Cummings, Carson; John B. Garland and J. Eugene Beatty, Coronado; Frank Angle, Crook; Frederick H. Smith, Jonathan L. Hughes and Raymond Earl Nafziger, Manzano, forest rangers. Mary C. Reilly, Carson; Esther Leone Hunt, Lincoln; Josephine C. Cunningham, Santa Fe, clerks (stenographers and typewriters). Luise C. Lieser, Datil, forest clerk. Raymond F. Grefe, Grand Canyon, deputy forest supervisor. Thomas Earl Wylder, Grand Canyon, forest supervisor. John W. Dorman, Coconino, scaler. Raymond Reed, Crook; Harry A. Snyder, Santa Fe; Henry A. Robinson, Tonto, unskilled laborers.

DISTRICT 4.—Carl B. Arentson, Wasatch, supervisor. Arthur W. Stevens, Minidoka; Theodore B. Nichols, grazing examiners. Seth B. Perry, Ashley; Virgil C. Moody, Boise; Edward R. Tuttle, Cache; George P. Low, Fillmore; Daniel K. Judd, Kaibab; Carl J. Kriley, Salmon; Virgil C. Lamb, Sawtooth; Albert DeLong, jr., and James G. Houston, Sevier; Walter C. Mellenthin, Targhee; John H. Woolstenhulme, Wasotch, rangers. John F. Fechser, Uinta; Walter L. Priest, Wyo-

ming; Ruby Pearl Eichoff and Jennie L. Beringer, clerks (stenographers and typewriters). William S. Silverthorn, messenger boy.

DISTRICT 5.—Oliver H. McElfresh and George H. Alen, Angeles; E. E. Jones, Eldorado; Glenburn H. Grow, Inyo; Allen J. Stanley, Lassen; Benjamin F. Tyler, Mono; Arthur C. Barrett, W. W. Douglas, and J. E. Nail, Plumas; William M. Clingan, Santa Barbara; Irven L. Wofford, Sequoia; John S. Thomas, Tahoe; Warren M. Watson, Stanislaus; Will K. Dodge, Trinity, forest rangers. Robert W. Ayres, Stanislaus, forest supervisor. John B. Carter, Stanislaus, scaler. William H. Gallaher, forest examiners. Alma S. Krans, clerk (stenographer and typewriter).

DISTRICT 6.—Harry W. DeVoe and Arthur L. Norgren, Columbia; William H. Goodrich, Colville; Harold A. Browning, Olympic; Herman N. Wallace, Oregon; James R. Davis, Wenaha, forest rangers. Marguerite B. Todd, Tongass, clerk (stenographer and typewriter). Richard H. Robertson, draftsman (surveyor). Emil F. Dallenbach, messenger boy. Thurman J. Starker, forest examiner.

With deep regret announcement is made of the death of Arthur E. Cole, forest ranger, San Juan, March 19; Silas W. Yarnall, forest ranger, Sopris, March 20; Robert Scott Bingham, forest ranger, Grand Canyon, March 30; Ethel T. Hoffman, clerk, Washington office, May 15; George E. King, clerk, Washington office, June 21.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* George Behean: Grazing trespass, civil, Nezperce Nation Forest. Case closed upon payment by trespasser of $227.52, value of forage consumed.

United States *v.* Durst & Havey Bros.: Timber trespass, civil, Helena National Forest. Case closed upon payment of $132.50, value of timber cut.

United States *v.* Great Northern Railway Co., fire 31 (7–23–17): Fire trespass, civil, Flathead National Forest. Complaint filed June 10, 1919; amount involved $5,687.63.

United States *v.* Sam Houghlan, grazing trespass, civil, Custer National Forest. Case closed upon payment of $71.50 by trespasser, value of forage consumed.

United States *v.* Thomas Loberg, grazing trespass, civil, Jefferson National Forest. Case closed upon payment by trespasser of $3.16, value of forage consumed.

United States *v.* Milwaukee Lumber Co. and Fidelity & Deposit Co. of Maryland (Elizabeth Davis claim): Proceedings on contract bond, St. Joe National Forest. Case argued in the United States District Court for Idaho at Coeur d'Alene on June 7 and June 11.

United States *v.* Northern Pacific Railway Co.: Suit for cancellation of patent No. 69511, Gallatin National Forest. Case argued in United States Circuit Court of Appeals in San Francisco on May 16, 1919.

United States *v.* Townsend Cattle Co., grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $16.25, value of forage consumed.

Law Cases in District 2—

United States *v.* James W. Zimmerman: Grazing trespass, Sopris National Forest. Case referred to Department of Justice for suit to recover $143.26, actual damages, and $50 punitive damages. Before

suit was filed compromise offer of settlement was made in the sum of $100, which was accepted, and case closed.

United States *v.* John Bebington: Grazing trespass, Harney National Forest. Judgment for $150 damages and costs satisfied upon payment of damages without costs.

United States *v.* Nat Cole: Grazing trespass, Holy Cross National Forest. Case closed upon payment of $12.50, actual damages.

United States *v.* Lloyd Edgerton: Grazing trespass, Holy Cross National Forest. Case closed upon payment of $15, actual damages.

United States *v.* E. O. Emerson: Grazing trespass, Holy Cross National Forest. Case closed upon payment of $9, actual damages.

United States *v.* Walter Richardson: Grazing trespass, Holy Cross National Forest. Case closed upon payment of $31.98, actual damages.

United States *v.* Mrs. S. Vermillion: Grazing trespass, Pike National Forest. Case closed upon payment of $4.20, actual damages.

United States *v.* Lewis Compton: Occupancy trespass, Harney National Forest. Case referred to Department of Justice, but before suit was filed trespasser made payment in the sum of $9.46, covering charges for past occupancy, and took out a permit for ensuing year; case closed.

United States *v.* Chicago & Northwestern Railroad Co.: Fire trespass, Black Hills National Forest. Suit to recover $3,460.95 damages. Answer filed. Case to come up for trial in September.

United States *v.* Hugh Cornett: Fire trespass, civil, Michigan National Forest. Bill of complaint to recover $298.66 damages prepared and forwarded United States attorney.

United States *v.* Big Horn Land & Cattle Co.: Occupancy trespass, Hayden National Forest. Bill of complaint filed, asking for an injunction to prevent defendant company from using a reservoir acquired under act of March 3, 1891, as a private fishing preserve, and from excluding the public from fishing therein, and from maintaining trespass signs around the lake. The reservoir site covers two natural lakes.

United States *v.* Safe Investment Gold Mining Co.: Special, Black Hills National Forest. Suit to cancel, for fraud, patent to 1,118 acres of lode mining claims. Decision of the district court in favor of the defendant affirmed May 19, 1919, by Judge Booth, of Circuit Court of Appeals, Eighth Circuit; dissenting opinion filed by Judge Carland.

Law Cases in District 3—

United States *v.* D. L. Wooddell: Grazing trespass, Coronado National Forest. Case closed on payment of $249, actual damages.

United States *v.* W. C. Thaxton: Grazing trespass, Lincoln National Forest. Case closed on payment of $54.82, actual damages.

United States *v.* Babbitt & Aso: Grazing trespass, Prescott National Forest. Case closed on payment of $16.64, actual damages.

United States *v.* Thomas McDonald: Grazing trespass, Manzano National Forest. Case closed on payment of $56.58, actual damages.

United States *v.* Mrs. Elizabeth Gastelum: Grazing trespass, Coronado National Forest. Case closed on payment of $7.76, actual damages.

United States *v.* Fred C. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of $7.48, actual damages.

United States *v.* Joseph H. Ball: Grazing trespass, Coronado National Forest. Case closed on payment of $38.50, actual damages.

United States *v.* T. C. Love: Grazing trespass, Lincoln National Forest. Case closed on payment of $54, actual damages.

United States *v.* Bailey Cattle Co.: Grazing trespass, Coronado National Forest. Case closed on payment of $774.30, actual, and $100, punitive damages.

United States *v.* Manuel B. Otero: Grazing trespass, Datil National Forest. Case closed on payment of $110, actual damages.

United States *v.* Sam B. Fambrough: Grazing trespass, Manzano National Forest. Case closed on payment of $11.96, actual damages.

United States *v.* Thomas Dickie: Grazing trespass, Gila National Forest. Case closed on payment of $26.10, actual damages.

United States *v.* Mrs. Sil Gamblin: Grazing trespass, Gila National Forest. Case closed on payment of $152.10, actual damages.

United States *v.* W. W. Newman: Grazing trespass, Sitgreaves National Forest. Case closed on payment of $43.20, actual, and $100, punitive damages.

United States *v.* Babbitt Bros. & Van Deren: Grazing trespass, Coconino National Forest. Case closed on payment of $2,683.20, actual damages.

United States *v.* Edwin D. Babbitt: Grazing trespass, Coconino National Forest. Case closed on payment of $1,201.80, actual damages.

United States *v.* Babbitt & Dickinson: Grazing trespass, Coconino National Forest. Case closed on payment of $335.28, actual damages.

United States *v.* Babbitt & Dickinson: Grazing trespass, Coconino National Forest. Case closed on payment of $576.80, actual damages.

United States *v.* Rozel E. Burke: Grazing trespass, Coconino National Forest. Case closed on payment of $30.80, actual damages.

United States *v.* Miguel and Rafael Egurrola: Grazing trespass, Coronado National Forest. Case closed on payment of $91.20, actual, and $25, punitive damages.

United States *v.* G. O. S. Cattle Co.: Timber trespass, Gila National Forest. Case closed on payment of $15, actual damages.

United States *v.* J. W. Hathaway: Grazing trespass, Coronado National Forest. Case closed on payment of $90, actual damages.

United States *v.* G. T. Holliman Estate: Grazing trespass, Gila-Apache National Forests. Case closed on payment of $695.89, actual damages.

United States *v.* Arthur H. Noon: Grazing trespass, Coronado National Forest. Case closed on payment of $394.80, actual, and $50, punitive damages.

United States *v.* Joseph Piskorski: Grazing trespass, Coronado National Forest. Case closed on payment of $1,684.80, actual damages.

United States *v.* Victor Sais: Grazing trespass, Manzano National Forest. Case closed on payment of $90, actual damages.

United States *v.* Pittman Valley Land & Cattle Co.: Grazing trespass, Tusayan National Forest. Case closed on payment of $18.40, actual damages.

United States *v.* Remisjio Torres: Grazing trespass, Lincoln National Forest. Case closed on payment of $33.75, actual damages.

United States *v.* Spellmire & Lyons Sheep Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $15.21, actual damages.

United States *v.* J. R. Robinson: Grazing trespass, Coconino National Forest. Case closed on payment of $25.34, actual damages.

United States *v.* Manuel Martinez: Grazing trespass, Coronado National Forest. Case closed on payment of $22.70, actual damages.

United States *v.* Norton & Ferguson: Grazing trespass, Crook National Forest. Case closed on payment of $300, actual, and $100, punitive damages.

United States *v.* W. F. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of $6.75, actual damages.

United States *v.* Francis Campbell & Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $24.52, actual damages.

United States *v.* Daniel W. Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $12.38, actual damages.

United States *v.* James A. Carey: Grazing trespass, Manzano National Forest. Trial by jury. Verdict in favor of United States for $236, actual damages.

United States *v.* J. F. Hutchinson: Fire trespass, Carson National Forest. Defendant arrested and gave bond for appearance at October term of court.

United States *v.* S. J. Hines: Occupancy trespass, Tonto National Forest. Case dismissed upon information that trespass had terminated, and of inability of defendant to satisfy judgment for damages.

United States *v.* Camillo Navarro & Francisco Martinez: Timber trespass, Crook National Forest. Plea of gulty by Martinez. Fined $25 and case closed.

United States *v.* Camillo Castro: Timber trespass, Crook National Forest. Plea of guilty. Fined $20 and case closed.

United States *v.* John Clary: Grazing trespass, Coronado National Forest. Petition for attachment for contempt, and order to show cause with corroborating affidavits prepared and submitted to United States attorney. A permanent injunction was issued September 27, 1915, and defendant has violated this by grazing stock on the forest without permit since April 1.

United States *v.* Santiago Boras: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Pablo Gallegos: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Samuel S. Candelario: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Yldefenso Bezunartes: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Lucio Arestequi: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* John Hamlin: Timber trespass, Gila National Forest. Case closed on payment of $8, actual damages.

United States *v.* James T. Fryer: Grazing trespass, Gila National Forest. Case closed on payment of $120.60, actual damages.

United States *v.* J. C. Moritz: Grazing trespass, Tusayan National Forest. Case closed on payment of $9.84, actual damages.

United States *v.* Estenbun Munios: Grazing trespass, Tusayan National Forest. Information filed charging violation of grazing regulations.

United States *v.* William C. Bell: Grazing trespass, Apache National Forest. Permanent injunction issued effective July 15, 1919, and payment of $261, value of pasturage.

United States *v.* James Parker: Grazing trespass, Coronado National Forest. Case closed on payment of $1,305.75, actual damages.

Law Cases in District 4—

United States *v.* Chas. P. Nate: Grazing trespass, Caribou National Forest. Case closed on payment of $11.64 actual damages.

United States *v.* Jose Sustacha: Grazing trespass, Humboldt National Forest. Case closed on payment of $153.25, including $100 punitive damages and $53.25 actual damages.

United States *v.* Pete Itciana: Grazing trespass, Humboldt National Forest. Case closed on payment of $298.90, the amount claimed, together with accrued costs.

United States *v.* Adolph Bissegger: Grazing trespass, Caribou National Forest. Case closed on payment of $61.87 actual damages.

United States *v.* Edward F. Wadleigh: Grazing trespass, Wasatch National Forest. Case closed on payment of $9.58 actual damages.

United States *v.* Frank Gardner: Grazing trespass, Fillmore National Forest. Case closed on payment of $80.32 actual and $35 punitive damages.

United States *v.* Wm. Alexander: Grazing trespass, Ashley National Forest. Abated by death of trespass. Dismissed April 28, 1919, and case closed.

United States *v.* Bedke Estate: Grazing trespass, Minidoka National Forest. Case closed on payment of $952.80, total actual damages.

United States *v.* Manuel Erro: Grazing trespass, Humboldt National Forest. Case closed on payment of $127.89 actual damages.

United States *v.* Varnell Rozsa and George Rogers: Timber trespass, Cache National Forest. Case closed on payment of $18 ($9 each) actual damages.

United States *v.* Ramon Archuletta, et al: Charged with murder of Forest Ranger Mellenthin, who attempted to arrest him as draft evader. At the trial held at Manti, Utah, Ignacio Martinez was sentenced to 15 years' hard labor, and Ramon Archuletta to life imprisonment.

Law Cases in District 5—

United States *v.* Frank Barnes: Grazing trespass, Lassen National Forest. Case closed upon payment of $27.50 actual damages.

United States *v.* Ole Hesbol: Grazing trespass, Lassen National Forest. Case closed upon payment of $42.10 actual damages.

United States *v.* Robert Potter: Grazing trespass, California National Forest. Defendant withdrew his plea of not guilty and entered a plea of guilty. Fined $25 and costs.

United States *v.* San Pedro, Los Angeles & Salt Lake Railroad Co.: Fire trespass, Angeles National Forest. Case closed upon payment of $390.69 actual damages.

United States *v.* Roy Mayes: Grazing trespass, Modoc National Forest. Case closed upon payment of $135, actual damages.

Law Cases in District 6—

United States *v.* Phil Hirl: Grazing trespass, Umatilla National Forest. Closed April 17, 1919, on payment of $93.81—$43.81 actual and $50 punitive damages.

United States *v.* F. L. Cundiff: Grazing trespass, Whitman National Forest. Closed March 31, 1919, on payment of $188.10 actual damage.

United States *v.* William Scott: Grazing trespass, Umatilla National Forest. Closed April 4, 1919, on payment of $48.60 actual and $50 punitive damages.

United States *v.* Andrew Keyes: Grazing trespass, Colville National Forest. Closed May 14, 1919, on payment of $8.10 actual damage.

United States *v.* P. F. Young: Grazing trespass, Minam National Forest. Closed March 31, 1919, on payment of $12.20 actual damage.

United States *v.* Tom McIntyre: Grazing trespass, Umatilla National Forest. Closed April 11, 1919, on payment of $63.75 actual and $50 punitive damages.

United States *v.* American Falls Development Co.: Grazing trespass, Minam National Forest. Closed June 13, 1919, on payment of $15 actual damage.

United States *v.* E. M. Crawford: Grazing trespass, Colville National Forest. Closed May 9, 1919, on payment of $29.25 actual damage.

United States *v.* J. R. Thompson: Grazing trespass, Whitman National Forest. Closed June 16, 1919, on payment of $5.25 actual damage.

United States *v.* A. E. Penney: Grazing trespass, criminal, Rainier National Forest. Defendant plead guilty April 24, 1919. Fined $50.

United States *v.* Charles Dills: Grazing trespass, criminal, Malheur National Forest. Defendant plead guilty May 22, 1919. Fined $50.

United States *v.* Maryott & Spencer Lumber Co.: Fire trespass, Olympic National Forest. Case closed April 25, 1919, on payment of $1,358 damages.

United States *v.* Lindsay Bros.: Occupancy trespass, unlawful inclosure, Crater National Forest. Defendants plead guilty June 7, 1919. Fined $329.55 each.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 749.—Production of Goats on Far Western Ranges.

Circular 124, Office of the Secretary.—A National Forest and Lumber Policy.

Circular 140, Office of the Secretary.—Lumber Export and our Forests.

Yearbook Extract 779.—Farm Woodlands and the War.

Unnumbered Publication.—Vacation Days in the Battlement National Forest.

Unnumbered Publication.—Vacation Trips in the Cochetopa National Forest.

Unnumbered Publication.—A Vacation Land of Lakes and Woods—The Superior National Forest.

Unnumbered Publication.—The Ouray Mountains of the Uncompahgre National Forest.

Unnumbered Publication.—Vacation Trips in Colorado's National Forests.

Unnumbered Publication.—Mountain Playgrounds of the Pike National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[July, 1919.]

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- District 2; July (26).

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Elimination of land from National Forest, district 4; July (30).
Issuance of patent, district 4; July (30).
Proceedings on contract bond, district 1; July (30).
Law cases:
- District 1; July (26).
- District 2; July (26).
- District 3; July (27).
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- District 5; July (31).
- District 6; July (31).

Trespass cases:
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- Fire—
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- Grazing—
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WASHINGTON : GOVERNMENT PRINTING OFFICE : 1919

No. 19 Issued October 15, 1919

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

October Field Program, 1919

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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TECHNICAL REVIEW.—L. C. EVERARD.
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Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; ~~E. C. Hirst~~, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; ~~F. W. Rane~~, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; ———, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. H. Nash, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.; G. M. Homans, State forester, Sacramento, Calif.

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GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner, in charge, Tucson, Ariz.

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Publication of Results.—Rolf Thelen, acting, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

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WATER POWER.—RALPH R. RANDELL, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

Engraving.—T. S. BROCK.

Photography.—E. S. SHIPP.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector, in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham, N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah Area, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Unaka and White Top Areas, W. E. Hedges, national forest examiner, Johnson City, Tenn.; Boone and Mount Mitchell Areas, W. J. Damtoft and party, Asheville, N. C.; Savannah Area, E. J. Mead, Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow, forest ranger (in charge of party), Moulton, Ala.; Ozark Area, William P. Dale, forest examiner, Russellville, Ark.; Arkansas Area, J. A. Bateman, national forest examiner, and F. T. Murphy, forest examiner, Hot Springs, Ark.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Carl F. Muzzey, and Paul G. Jenney, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.; Monongahela Area, Walter H. Sullivan, Elkins, W. Va.

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RESEARCH.— ———.

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Drafting.—FRANK J. COOL.

Photography.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

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WATER POWER.—E. W. KRAMER, in charge.

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Kaniksu.—See Washington.

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Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman; F. E. Brown, fire assistant.

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

Deerlodge.—FAY G. CLARK, forest supervisor, Butte (P); W. W. Weber, deputy forest supervisor; W. C. Latane and J. C. Ketridge, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); E. A. Anderson, deputy forest supervisor; C. S. Webb, lumberman; Kenneth Wolfe, H. L. Redlingshafer, and Chas. J. Hash, fire assistants.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU); J. C. De Camp, deputy forest supervisor.

Helena.—C. K. MCHARG, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.

Jefferson.—W. B. WILLEY, forest supervisor, Great Falls (WU); A. C. Adams, deputy forest supervisor.

Kootenai.——————, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor; C. E. Sutton, forest examiner; C. B. Baker and Clark Miles, fire assistants.

Lewis and Clark.—BURR W. CLARK, forest supervisor, Choteau (WU).

Lolo.—A. M. BAUM, forest supervisor, Missoula (WU, P); A. B. Hodgins, lumberman; E. J. Yeomans, forest examiner; R. A. Phillips, fire assistant.

Madison.—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P); Frank Foltz, fire assistant.

Sioux.—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor; W. L. Baldwin, forest examiner.

WASHINGTON.

Kaniksu.—H. R. FLINT, forest supervisor, Newport (WU via Priest River-Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner; J. S. Baird, lumberman; G. W. Kitch, fire assistant.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

FRED MORRELL, acting district forester; W. I. HUTCHINSON, information; PETER KEPLINGER, education.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, national forest examiner, fire protection; H. R. KYLIE, telephone engineer; ARTHUR M. COOK, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; EARL W. TINKER, forest supervisor; J. A. DONERY, lumberman.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge; JESSE M. MANN, grazing assistant.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.——.

Drafting.—C. B. GOSORN, acting.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE, assistant.

WATER POWER.—FRED D. MENDENHALL.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

Arapaho.—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU); H. H. RICHMOND; forest examiner.

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU).

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU); Wm. R. Fraser, deputy forest supervisor.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); Robert H. Easterbrooks, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).

Montezuma.—A. F. C. HOFFMAN, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—ARTHUR T. UPSON, forest supervisor, Denver (WU, P); Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU); Alve L. Richey, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU).

Uncompahgre.—HAROLD L. BORDEN, acting forest supervisor, Delta (WU).

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Case Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Chas. L. Cecil and Gerald M. Hunter, deputy forest supervisors; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); John V. Leighou, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Louis E. Coughlin, deputy forest supervisor; Andrew Hutton, forest examiner; Jas. C. Jensen, lumberman.

Shoshone.—J. W. LOWELL, Jr., forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Buildings, Albuquerque, N. Mex.

PAUL G. REDDINGTON, district forester; WARD SHEPARD, forest examiner, educational cooperation, and game protection.

LAW.—Office of the solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; EDWARD P. ANCONA, deputy forest supervisor; H. G. CALKINS, forest supervisor.

SILVICULTURE.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOTT and C. K. COOPERRIDER, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forrester; FRANK H. ANDREWS, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.—LEE C. DAVES, assistant engineer in charge.

Drafting.—F. E. LANDON.

Entry Surveys.—FRANK D. YOST and A. W. HENDRIX, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER, CHAS. H. KISSAM.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

Coconino.—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner, deputy forest supervisor.

Coronado.————, forest supervisor, Tucson (WU); H. Basil Wales, forest supervisor, acting in charge; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—ROBERT L. DEERING, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.————, forest supervisor, Williams (WU, P); Francis L. W. Grubb, deputy forest supervisor, acting in charge; Chester V. Christensen, deputy forest supervisor.

NEW MEXICO.

Carson.————, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor, acting in charge.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; CHAS. D. SIMPSON, acting assistant district forester; JAMES E. SCOTT, national forest inspector, executive assistant; R. B. ADAMS, telephone engineer.

MAINTENANCE.—CLYDE M. GWIN.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—LAWRENCE J. PALMER, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr., in charge.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS and E. C. ROSS, assistants.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge; F. S. Baker, forest examiner, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU); G. G. Henderson, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.
Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.
Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.
Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.
Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU); Wallace M. Riddle, deputy forest supervisor.
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTESSON, forest supervisor, Salina (WU).
La Sal.—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).
Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).
Minidoka.—See Idaho.
Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).
Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU); R. D. Garver, forest examiner.
Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor; Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

COERT DUBOIS, district forester.

ECONOMIC STUDIES.—C. A. KUPFER.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; CLARENCE WILEY, national forest inspector; PAUL P. PITCHLINN, forest supervisor.

IMPROVEMENT.—EVAN W. KELLY, national forest examiner, in charge.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

LAW ENFORCEMENT.—C. L. HILL, forest examiner, in charge. Field Investigations, C. V. BRERETON, national forest examiner.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.— ———.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—S. B. SHOW, E. N. MUNNS.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; J. S. BOYCE, H. G. LACHMUND, ARTHUR S. RHOADS, R. A. STUDHALTER, N. REX HUNT, assistants.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—S. W. WYNNE, forest examiner, in charge; PERCY L. DAY, S. N. STONER, field surveys.

Drafting.—H. A. SEDELMEYER, acting.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).
California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. Mace, deputy forest supervisor.
Cleveland.—M. R. TILLOTSON, forest supervisor, San Diego (WU).
Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).
Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).
Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU); Sherley W. Allen, forest examiner.
Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Weislander, forest examiner.
Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).
Mono.—See Nevada.
Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr, lumberman.
Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).
Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU); Wm. F. Derby, deputy forest supervisor.
Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrom Creek Nursery, Roscoe Weaver, forest examiner.
Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant—Exp. via Friant).
Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU).
Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU); Geo. W. Lyons, forest examiner.
Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Minden (WU).
Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; SHIRLEY BUCK and H. M. WHITE, national forest inspectors; W. B. OSBORNE, Jr., forest examiner, fire protection; H. L. PLUMB, forest examiner, trails.

MAINTENANCE.—H. G. WHITNEY.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, GEO. L. DRAKE, and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—E. J. HANZLIK, C. J. CONOVER, and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE and R. H. WEITKNECHT, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—T. M. TALBOTT, national forest examiner.

LAND CLASSIFICATION (ALASKA).—ASHER IRELAND and WELLMAN HOLBROOK.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

RECREATION.—FRED W. CLEATOR, deputy forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

MINERAL EXAMINATION.—W. M. H. WOODWARD, mineral examiner.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.— ———.

Surveys.— ———.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—PHILIP H. DATER.

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU).

OREGON.

Cascade.—R. S. WALLACE, acting forest supervisor, Eugene (WU, P).

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P); T. M. Hunt, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P).

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T–Exp. via Wenatchee); E. O. Blankenship, deputy forest supervisor.

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).
Colville.—C. C. REID, forest supervisor, Republic (WU, P).
Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.
Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; A. A. Griffin and O. F. Ericson, forest examiners.
Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.
Snoqualmie.—W. G. WEIGLE, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., forest supervisor.
Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.
Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).
Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.
ACCOUNTS.—J. H. KERRICK, district fiscal agent.
OPERATION, ENGINEERING, } H. O. STABLER, assistant district forester; JOHN W. FOX, assistant engineer; R. C. HUEY, roads.
SILVICULTURE.—I. F. ELDREDGE, assistant district forester.
GRAZING, LANDS, } F. W. REED, district forester; W. F. HILL, national forest examiner.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, forest ranger in charge, Moulton.

ARKANSAS.

Arkansas.—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor.
Ozark.—BEN F. VAUGHAN, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.
Savannah.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); W. J. Damtoft and Ira T. Yarnall, forest examiners.
Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Franklin (WU, P); E. J. Mead, forest examiner.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens (WU, P); C. E. Beaumont, forest supervisor.
White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest supervisor, Johnson City (WU, P); W. E. Hedges, national forest examiner.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.
Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P).
White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Wilbur R. Mattoon, forest examiner (by transfer from States Relations Service).

LABORATORY.—Donald E. Cable and Carl A. Menzel, assistant engineers in forest products; Calvin L. Bachelder, assistant chemist in forest products; John M. Gahagen, laboratory aid and engineer.

DISTRICT 1.—A. R. Steege, Flathead; Joseph F. Mahoney, St. Joe; Gerhard Kempff, Kaniksu; Fred Millwood, Coeur d'Alene; Aarel E. Sexton, Missoula; Arthur E. Byers and Henry K. Nichols, Cabinet; A. W. Kurtz, Deerlodge; Ashton V. Kunkel, Nezperce; Ward M. Stoltz, Sioux, forest rangers. Perry E. Bates, Kaniksu; Angus R. McDonald, Coeur d'Alene; Robert E. Dow, St. Joe, scalers. Max J. Gleissner, Blackfeet, forest assistant. Anna A. Wagner and Marie G. Martin, Deerlodge, clerks (stenographers and typewriters). Gertrude E. Ward and Mary E. Turrell, clerks (typewriters). Fay G. Clark (reinstatement), forest supervisor.

DISTRICT 2.—George P. Lang, Hayden; Victor H. Frey (reinstatement), Holy Cross; Julian P. Nordlund, Leadville, forest clerks. Hazel Wilson, Medicine Bow, clerk (stenographer and typwriter). Charles M. Hall, Washakie, clerk (stenographer). Oliver Robertson, Fremont Experiment Station; Elmer L. Davis, Battlement; Edwin L. Miller, Gunnison; Marion S. Hulse, Shoshone, forest rangers. Roger V. Brewster, Ray B. Sims, surveyor-draftsmen. Daniel G. O'Reardon, draftsman.

DISTRICT 3.—Aldo Leopold, assistant district forester. Richard T. Ross, Carson; Clyde E. Thomson, Coconino, scalers. Evan W. Hadley, Carson, forest ranger; Clement L. Lincoln, Coconino, forest clerk; Sue Lionbarger, Sitgreaves, clerk; Kasimir J. Szyperski, Tonto, clerk (typewriter); Doris J. Boren and Margery M. Kerr, clerks (stenographers and typewriters). Jacob C. Mulder, classifier (transfer); Nelson F. Newman, surveyor.

DISTRICT 4.—Roy H. McDougall (reinstated) and Frederick L. Mott (reinstated), Toiyabe; Warren C. Taylor (reinstated), Boise, forest rangers. Howard D. Harris (reinstated), Great Basin Experiment Station; Walter L. Priest (reinstated), Sawtooth, forest clerks; Arabella B. Woodgate, Humboldt, typewriter. Thomas G. Reeder, blue printer.

DISTRICT 5.—Robert Scarlett (reinstatement), Plumas; Wesley W. Snider, Sequoia, forest rangers. Lura S. Gyllstrom (reinstatement), Cleveland, forest clerk. Jane L. Curtis (reinstatement), clerk (stenographer and typewriter). Clara L. Lund, messenger girl. Don M. Hoffman, surveyor-draftsman.

DISTRICT 6.—Lloyd T. Hougland, Colville; Donald G. Knox and Elmer F. Patterson, Siuslaw; Charles J. Ayres, Deschutes, forest rangers. Willard A. Steiner, Okanogan, forest clerk. Benjamin A, Eddy, surveyor; Helen Ulin, clerk (stenographer and typewriter); Leola A. Blount, clerk.

PROMOTED IN RANK.

DISTRICT 1.—Wm. L. Lay and John C. DeCamp Gallatin, forest rangers to deputy forest supervisors. Fred E. Brown, Cabinet; A. J. Devan, Bitterroot; Ray R. Fitting, Pend Oreville; A. J. Roche, St. Joe; Frank Foltz, Missoula; Charles J. Hash, Flathead, forest rangers to fire assistants. James F. Brooks, Blackfeet; Roy P. Edwards, forest rangers to national forest examiners. Geo. W. Jones and Claude E. Sutton, Blackfeet; E. J. Yeomans, Lolo, forest rangers to forest examiners. Wm. J. McCarthy, Jefferson, forest assistant to forest ranger. Paul C. Kitchin and V. C. Sheffield, Coeur d'Alene, forest assistants to forest examiners. Arthur M. Baum, Beartooth, deputy forest supervisor to forest supervisor. H. A. Calkins and James B. Yule, surveyor-draftsmen to assistant engineers. Joseph A. Fitzwater, forest supervisor to forest examiner. Lewis C. Stockdale, forest supervisor to national forest examiner. Frank J. Jefferson, fire assistant, Clearwater, to forest supervisor, Selway.

DISTRICT 2.—John V. Leighou, Harney, forest ranger to forest examiner. James C. Jensen, Medicine Bow, scaler to lumberman. Earl W. Tinker, forest examiner to forest supervisor. Joseph A. Donery, forest ranger to lumberman.

DISTRICT 3.—Raymond E. Marsh, forest supervisor to assistant district forester. James A. Scott, Gila, deputy forest supervisor to forest supervisor; Robert Thompson, Coronado, forest ranger to deputy forest supervisor; Serrin S. Van Boskirk, Fort Valley Experiment Station, and Stanley F. Wilson, Coronado, forest rangers to forest examiners. William T. Doherty, Santa Fe, scaler to national forest examiner; Wayne Russell, Tusayan, scaler to lumberman. Wm. H. Gill, draftsman to national forest examiner.

DISTRICT 5.—Wm. F. Derby, Sequoia, forest ranger to deputy forest supervisor; J. V. Wulff, Stanislaus, lumberman to forest supervisor; Duncan Dunning, forest assistant to forest examiner; Sedman W. Wynne, forest supervisor to forest examiner.

DISTRICT 6.—Robert A. Zeller, Tongass, forest assistant to forest examiner; Frank B. Lenzie, Wenatchee, forest ranger to grazing examiner; Claude W. Waterbury, Whitman, scaler to lumberman; Bruce E. Hoffman, forest examiner to logging engineer.

DISTRICT 7.—Charles A. Plymale, Arkansas, deputy forest supervisor to supervisor; Ben F. Vaughan, Ozark, national forest examiner to forest supervisor; William E. White, forest examiner to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—Elers Koch, Lolo, forest supervisor to forest examiner.

DISTRICT 2.—Arthur M. Cook, forest supervisor to forest examiner.

DISTRICT 3.—H. Basil Wales, Coronado, and Robert L. Deering, Prescott, forest examiners to forest supervisors.

DISTRICT 5.—Jonathan M. Stark, forest guard to forest ranger; Benjamin J. Hoffner, forest clerk to forest ranger.

DISTRICT 6.—Carl B. Neal, Oregon, deputy forest supervisor to fire assistant; Charles H. Flory, Chugach-Tongass, assistant district forester to forest supervisor; Alpheus O. Waha, forest inspector to assistant district forester.

RESIGNED.

LABORATORY.—Henry E. Surface and Harry P. Burden, engineers in forest products; Rufus Crane, assistant engineer in forest products; Nils B. Eckbo, forest examiner; Robert B. Lebo, assistant chemist; Horace T. Burgess, computing specialist; Leroy P. Elliott, industrial specialist.

DISTRICT 1.—C. H. Adams, assistant district forester. Chas. L. Howell, Selway; Roscoe Haines, St. Joe, forest supervisors. James E. Williss, Madison; Roy T. Mills and George A. Perry, Flathead; Cassius H. Hurst and Lou Brundage, Nezperce; Arthur E. Byers, Cabinet; Robert C. Clark and Claude R. Townsend, Lewis and Clark; Charles S. Mathews, Deerlodge; H. B. Brown, Blackfeet; Justin K. Dwinelle, Kootenai; Carl J. Simon, Helena, forest rangers. Max J. Gleissner, Coeur d'Alene; forest assistant. W. W. Bennett, Lolo; deputy forest supervisor. Anna H. Bridwell, Helena; Mrs. Louise M. Anderson, Blackfeet; Irene A. Garland, Flathead; Marie G. Martin, Mary S. Hall, Alice L. Weise, and Agnes Carter, Deerlodge; Jessie L. Patten, clerks (stenographers and typewriters). Blanche D. Sims and Edith M. Cline, Cabinet; clerks (typewriters). L. W. Beaman, messenger boy.

DISTRICT 2.—Raymond W. Allen, Shoshone, forest supervisor. Percy T. Smith, Black Hills; Bernard E. Leete, Harney, forest examiners. William J. Trembath, Superior, forest clerk. Alice G. Judson, Montezuma, clerk (stenographer and typewriter). Lee R. Semones, Bighorn; Earl H. Hitch, Pike, clerks (typewriters). James G. Cayton, Battlement; Fred L. Martin, Medicine Bow; Edward H. Stickney, Michigan; Frank P. Sobey and Roy M. Truman, Pike; Raymond P. Inskeep, Rio Grande; Holland Coleman, San Isabel; Verner Moore and Fred R. Thomas, Shoshone; John A. Cox, Sopris, forest rangers. Robert M. Gumaer, superintendent of construction. Herbert F. Hedge, draftsman (copyist-topographic). Mrs. Anna Clover, clerk (stenographer and typewriter).

DISTRICT 3.—H. H. Chapman, assistant district forester. Charles L. Rak, Coronado, deputy forest supervisor. Lewis H. Lynch, Carson; Leroy Eugene Gardner, Crook; Ralph W. Hussey, Coconino; Lyman H.

Taft, jr., Lincoln; Louis H. Waters, Manzano; Fred Haworth, Prescott; Leonard D. Blodgett, Santa Fe, forest rangers. Joseph A. Barrett, forest clerk; Dorris Claire Hooppaw, clerk (stenographer and typewriter); Jennie V. Asselin, Coconino, clerk (typewriter). John H. Allison, forest examiner.

DISTRICT 4.—Jack Albano, Targhee; Pearl W. Haines, Cache; Carl S. Kennedy, Salmon; Joseph Louis Sheppard, Wasatch; Fred L. Smith, Teton; Clarence Wyatt, Toiyabe, forest rangers. Marion Berlin, Humboldt; Cynthia Johnston and Lillie M. Raymer, Wasatch; Lewis R. Walgren, Sawtooth, forest clerks.

DISTRICT 5.—A. W. Bramwell, Modoc; R. P. Box, Shasta; William Garrett, Trinity, forest rangers. J. O. Morrow, Lassen, forest supervisor. Edwin H. Steffen, Klamath, forest examiner. Ulrich Graff, topographic draftsman. Ethel K. Kinnear, clerk (stenographer and typewriter). Swift Berry and Dwight C. Birch, logging engineers.

DISTRICT 6.—Albert L. Peachey, Crater; John C. Christian, Deschutes; George T. McCaskie, jr., and Otto Weaver, Siuslaw; Rolland Huff, Whitman; Alan K. Moody, Olympic; James Frankland, forest rangers. R. E. Kan Smith, Wenatchee, forest examiner. Florence E. Barnhart and Nora Ostrander, clerks (stenographers and typewriters).

DISTRICT 7.—R. C. Hall, forest examiner. J. St. J. Benedict, Pisgah, and Eugene L. Lindsey, Arkansas, forest examiners. Charles J. Heller, Arkansas, forest supervisor. Claude H. Parks, Pisgah, and John D. Lawrence, Arkansas, forest rangers. Lyle A. Whitsit, assistant engineer.

With deep regret announcement is made of the death of W. Leonard Brady, clerk, Washington office, September 22; John Snider, forest guard, Eldorado, August 21.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Burtt Sheep & Cattle Co.; Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $84.95, value of forage consumed.

United States *v.* A. B. Cook: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $24.72, value of forage consumed.

United States *v.* Hansen Brothers: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $31.75, value of forage consumed and expenses of working up case.

United States *v.* J. W. Jenkins: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $11.31, value of forage consumed.

United States *v.* J. E. Kirschbaum: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $15, value of forage consumed and cost of preparing case.

United States *v.* Philip Mockel: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $16.24, value of forage consumed and cost of preparing case.

United States *v.* G. V. Patterson: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment by trespasser of $100, value of forage consumed and damage done.

State of Montana *v.* George Dall: Fire trespass, criminal, Beaverhead National Forest. Defendant entered plea of guilty of violation of Montana State fire law. Fined $50. Case closed.

State of Montana *v.* James Kabble: Fire trespass, criminal, Beaverhead National Forest. Defendant entered plea of guilty of violation of Montana State fire law. Fined $50. Case closed.

State of Idaho *v.* Jules Perrin: Fire trespass, criminal, Nezperce National Forest. Defendant pleaded guilty of leaving camp fire unextinguished. Fined $50 and costs. Case closed.

State of Montana *v.* D. Brown: Obtaining property under false pretense, Bitterroot National Forest. Defendant pleaded guilty and was fined $20. Case closed.

State of Montana *v.* C. O. Cook: Obtaining property under false pretense, Bitterroot National Forest. Defendant pleaded guilty and was fined $20. Case closed.

State of Montana *v.* Harry Duval: Obtaining property under false pretense, Bitterroot National Forest. Defendant pleaded guilty and was fined $20. Case closed.

State of Montana *v.* Thomas Rice: Obtaining property under false pretense, Bitterroot National Forest. Defendant pleaded guilty and was fined $20. Case closed.

State of Idaho *v.* Joe Boissoneau: Fraudulently obtaining transportation from Government, Selway National Forest. Defendant fined $25 and costs. Case closed.

State of Idaho *v.* J. W. Nelson: Fraudulently obtaining transportation from Government. Defendant fined $25 and costs. Case closed.

United States *v.* Philip Mockel: Grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $15.30, value of forage consumed and exemplary damages.

United States *v.* Schiavon Bros.: Timber trespass, civil, Helena National Forest. Case closed upon payment by trespasser of $31.25, value of timber cut.

State of Idaho *v.* J. E. Warren: Fire trespass, criminal, Selway National Forest. Defendant pleaded guilty to charge of leaving fire unextinguished. Fined $10 and costs. Case closed.

State of Montana *v.* J. L. Cox: Fire trespass, criminal, Kootenai National Forest. Defendant pleaded guilty to charge of burning slash without permit. Fined $25 and costs. Case closed.

State of Montana *v.* Alex and Bob Harvey: Fire trespass, criminal, Kootenai National Forest. Defendants charged with burning slash without permit. Case against Bob Harvey dismissed. Alex Harvey fined $25 and costs. Case closed.

State of Montana *v.* Ed Heinberg: Fire trespass, criminal, Kootenai National Forest. Defendant pleaded guilty to charge of burning slash without permit. Fined $25 and costs. Case closed.

State of Montana *v.* Zone E. Jenkins: Fire trespass, criminal, Flathead National Forest. Defendant pleaded guilty to charge of burning slash without permit. Fined $10. Case closed.

State of Montana *v.* Frank B. Lyon: Fire trespass, criminal, Cabinet National Forest. Defendant pleaded guilty to charge of burning slash without permit. Fined $10 and costs. Case closed.

State of Montana *v.* James Moore: Fire trespass, criminal, Cabinet National Forest. Defendant charged with setting fire on land not his own. Found not guilty. Case closed.

State of Montana *v.* George Moyer: Fire trespass, criminal, Blackfeet National Forest. Defendant pleaded guilty to charge of burning slash without permit and was fined $25. Case closed.

State of Montana *v.* William B. Russel, jr., and Herbert Hauk: Fire trespass, criminal, Cabinet National Forest. Defendants pleaded guilty of leaving camp fire unextinguished. Each man fined $10 and costs. Case closed.

United States *v.* Ban Nartea: Grazing trespass, criminal, Helena National Forest. Case called, but defendant failed to appear, and court ordered his bond of $100 forfeited and directed that bench warrant issue.

Law Cases in District 2—

United States *v.* California-Newcastle Mining Co.: Fire trespass, White River National Forest. Case closed upon payment of $97.11, actual damages.

United States *v.* Colorado, Wyoming & Eastern Railroad Co.: Fire trespass, Colorado National Forest. Compromise offer of settlement, as outlined in last number of Field Program, accepted by the Solicitor of the Treasury and case closed.

United States *v.* Colorado, Wyoming & Eastern Railroad Co.: Fire trespass, Medicine Bow National Forest. Compromise offer of settlement, as outlined in last number of Field Program, accepted by the Solicitor of the Treasury and case closed.

United States *v.* Diamanti, Kaddas & Juflus: Grazing trespass, Gunnison National Forest. Case closed upon payment of $30, actual damages.

United States *v.* W. J. and O. L. Sanderson: Grazing trespass, Rio Grande National Forest. Case closed upon payment of $112.50, actual damages.

United States *v.* L. G. Caldwell: Occupancy trespass, Arapahoe National Forest. Case closed on advice of forest supervisor that the final clean-up of brush would be attended to by the Forest Service in the fall.

United States *v.* Safe Investment Gold Mining & Milling Co.: Suit to cancel patent, Black Hills National Forest. Case closed on advice of Attorney General to the Secretary of Agriculture that it was thought there was no reasonable hope of avoiding the effect in the Supreme Court of the concurring findings of the two lower courts on the question of fraudulent intent.

United States *v.* Chicago & North Western Railroad Co.: Fire trespass, Black Hills National Forest. Case postponed until May term of court.

United States *v.* Colorado, Wyoming & Eastern Railroad Co.: Fire trespass, Medicine Bow National Forest. Compromise offer of settlement made, covering the three separate fires involved. The offer was referred to the Forester with the recommendation that it be accepted.

United States *v.* Fall River Power Co.: Occupancy trespass, Pike National Forest. Case postponed until November term of court.

United States *v.* John Hamilton: Occupancy trespass, Cochetopa National Forest. Bill of complaint filed asking for an injunction to pre-

vent the defendant from occupying National Forest land and maintaining fences upon and around said lands.

United States *v.* H. A. Holiday: Occupancy trespass, Black Hills National Forest. Bill of complaint filed asking for an injunction to prevent the defendant from occupying National Forest land and buildings thereon.

United States *v.* Daniel Hope: Occupancy trespass, San Isabel National Forest. Case referred to Forester for submission to the Department of Justice.

United States *v.* Arthur Harvey: Special, Black Hills National Forest. Bill of complaint prepared and submitted to the United States attorney, asking for an injunction to restrain the defendant from interfering with the sale of timber on unpatented mining claims.

United States *v.* Frank Sherman: Special, Black Hills National Forest. Bill of complaint prepared and submitted to the United States attorney, asking for an injunction to restrain the defendant from interfering with the sale of timber on unpatented mining claims.

Law Cases in District 3—

United States *v.* Joe R. Brazil: Grazing trespass, Lincoln National Forest. Case closed on payment of $33.30, actual damages.

United States *v.* Campbell, Francis & Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $24.52, actual damages.

United States *v.* C. C. and A. W. Chapman: Grazing trespass, Coronado National Forest. Case closed on payment of $225, actual, and $50, punitive, damages.

United States *v.* James T. Fryer: Grazing trespass, Gila National Forest. Case closed on payment of $120.60, actual damages.

United States *v.* John Hamlin: Grazing trespass, Gila National Forest. Case closed on payment of $8, actual damages.

United States *v.* J. C. Moritz: Grazing trespass, Tusayan National Forest. Case closed on payment of $9.84, actual damages.

United States *v.* Manuel Martinez: Grazing trespass, Coronado National Forest. Case closed on payment of $22.70, actual damages.

United States *v.* Norton & Ferguson: Grazing trespass, Crook National Forest. Case closed on payment of $300, actual, and $100, punitive, damages.

United States *v.* J. R. Robinson: Grazing trespass, Coconino National Forest. Case closed on payment of $25.34, actual damages.

United States *v.* Spellmire & Lyons: Grazing trespass, Prescott National Forest. Case closed on payment of $15.21, actual damages.

United States *v.* Jose A. Padilla: Grazing trespass, Manzano National Forest. Case closed on payment of $67.50, actual damages.

United States *v.* Remisjio Torres: Grazing trespass, Lincoln National Forest. Case closed on payment of $33.75, actual damages.

United States *v.* Daniel W. Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of $12.38, actual damages.

United States *v.* W. F. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of $6.75, actual damages.

United States *v.* Francisco Arballo: Grazing trespass, Coronado National Forest. Case closed on payment of $181.50, actual damages.

United States *v.* Filiciano Chavez, sr.: Grazing trespass, Lincoln National Forest. Case closed on payment of $37.50, actual damages.

United States *v.* Harry Henderson & Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $14.39, actual damages.

United States *v.* Arcadia Leger: Grazing trespass, Sante Fe National Forest. Case closed on payment of $6.90, actual damages.

United States *v.* Manuel Salcido: Grazing trespass, Coronado National Forest. Case closed on payment of $41.02, actual damages.

United States *v.* Sopori Land & Cattle Co.: Grazing trespass, Coronado National Forest. Case closed on payment of $256.28, actual damages.

United States *v.* Mrs. Ora Swope & Sons: Grazing trespass, Lincoln National Forest. Case closed on payment of $864, actual, and $250, punitive, damages.

United States *v.* True-Nance Cattle Co.: Grazing trespass, Coronado National Forest. Case closed on payment of $1,201.80, actual damages.

United States *v.* Aravaca Land & Cattle Co.: Grazing trespass, Coronado National Forest. Case closed on payment of $2,862, actual, and $500, punitive, damages.

United States *v.* Chambers & Newman: Grazing trespass, Prescott National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Louis Clerou Sheep Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $17.63, actual damages.

United States *v.* R. R. Gleason: Grazing trespass, Tusayan National Forest. Case closed on payment of $15, actual damages.

United States *v.* Teofilo Otero: Grazing trespass, Coronado National Forest. Case closed on payment of $468.60, actual damages.

United States *v.* Carlos Castillo: Grazing trespass, Coconino National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Jose Elargo: Grazing trespass. Conconino National Forest. Case closed on payment of $6.60, actual damages.

United States *v.* Eraso Cruz: Grazing trespass, Coconino National Forest. Case closed on payment of $25.11, actual damages.

United States *v.* Hart Sheep Co.: Grazing trespass, Coconino National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Sawyer & Otondo: Grazing trespass, Coconino National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Penasco Lumber Co.: Timber trespass, Lincoln National Forest. Case closed on payment of $165.34, actual damages.

United States *v.* Juan Chavez: Grazing trespass, Lincoln National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Mrs. Elena Elia; Grazing trespass, Sitgreaves National Forest. Case closed on payment of $184.25, actual damages.

United States *v.* Alejandro Maes: Grazing trespass, Lincoln National Forest. Case closed on payment of $7.50, actual damages.

United States *v.* Sawyer-Otondo Sheep Co.: Grazing trespass, Prescott National Forest. Case closed on payment of $17.57, actual damages.

United States *v.* Will Gray: Grazing trespass, Coconino National Forest. Case closed on payment of $28, actual damages.

United States *v.* Etebon & Jose Torrez: Timber trespass, Gila National Forest. Case closed on payment of $12, actual damages.

United States *v.* E. R. Chambers: Grazing trespass, Coconino National Forest. Case closed on payment of $6.88, actual damages.

United States *v.* De Witt Cosper: Grazing trespass, Apache National Forest. Case closed on payment of $223.75, actual damages.

United States *v.* W. D. Parker: Grazing trespass, Coronado National Forest. Case closed on payment of $406.61, actual damages.

United Sttaes *v.* Francisco Quintana: Grazing trespass, Santa Fe National Forest. Case closed on payment of $6.60, actual damages.

United Sttaes *v.* Benino Trujillo: Grazing trespass, Santa Fe National Forest. Case closed on payment of $2.70, actual damages.

United States *v.* Chapman & Harrison: Grazing trespass, Coronado National Forest. Complaint filed demanding $1,353.50, actual, and $300 punitive, damages. Answer denying trespass and damages filed.

United States *v.* W. H. Dickinson: Grazing trespass, Coconino National Forest. Complaint filed demanding $607.32, actual damages.

United States *v.* James G. Van Deren: Grazing trespass, Coconino National Forest. Complaint filed demanding $1,891, actual damages.

United States *v.* W. H. Anderson: Timber trespass, Coronado National Forest. Complaint filed demanding $115.80, actual damages.

United States *v.* James A. Carey: Grazing trespass, Manzano National Forest. Defendant's motion for new trial overruled. L. H. Clounch, who failed to respond to subpoena as witness in this case, pleaded guilty and was fined $25.

United States *v.* Wm. C. Bell: Grazing trespass, Apache National Forest. Execution issued for collection of $261, actual damages.

United States *v.* Carl Washburn: Grazing trespass, Coronado National Forest. Defendant filed answer denying trespass and damages.

United States *v.* Lee S. Miller: Grazing trespass, Coconino National Forest. Temporary injunction issued.

United States *v.* W. C. Ross: Occupancy trespass, Coconino National Forest. Permanent injunction issued.

In re Ira T. Yarnall (forest supervisor Tusayan National Forest). Application for writ of habeas corpus filed. Notice to show cause, and answer filed.

United States *v.* John N. Anderson: Indicted for misdemeanor, failure to respond to subpoena issued for his attendance as a witness at hearing on homestead entry contest, Coconino National Forest.

United States *v.* Valentine Aja: Grazing trespass, Prescott National Forest. Plea of guilty. Fined $50 and case closed.

United States *v.* Estenbun Munios: Grazing trespass, Tusayan National Forest. Plea of guilty. Fined $50. Defendant in jail in default of payment.

United States *v.* Lucio Arestequi: Grazing trespass, Prescott National Forest. Bond of $500 forfeited, and bench warrant issued.

United States *v.* Yldefenso Bezunartea: Grazing trespass, Prescott National Forest. Bond of $500 forfeited and bench warrant issued.

United States *v.* Santiago Boras: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Samuel S. Candelario: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Pablo Gallegos: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

Law Cases in District 4—

United States *v.* Adriano Delgado: Grazing trespass, Humboldt National Forest. Case closed on payment of $14.40, actual damages.

United States *v.* William Jones: Grazing trespass, Minidoka National Forest. Decree issued July 25, 1919, enjoining defendant from allowing his cattle to graze on the National Forest.

United States *v.* Walter Weber: Claims case, Caribou National Forest, involving H. E. 016056 Blackfoot. September 10, 1919, decision of register and receiver for Government.

United States *v.* Jose Utnecha: Fire trespass, Boise National Forest. The sum of $350 was deposited for security. Bound over for hearing in United States district court, Boise.

United States *v.* Roland C. Taylor: Grazing trespass, Boise National Forest. Case closed on payment of ($52, actual, and $50, punitive) damages.

United States *v.* Seth Loveland: Grazing trespass, Minidoka National Forest. Case closed on payment of $92, actual damages.

United States *v.* C. V. Richardson: Grazing trespass, Weiser National Forest. Case closed on payment of $90, actual damages.

United States *v.* W. A. Thomas: Fire trespass, Payette National Forest. Arrest by forest ranger, trial in United States court at Boise September 5, plea of guilty. Case closed on payment of $100 fine.

United States *v.* Edward E. Ogren: Claims case, Sawtooth National Forest, involving H. E. 011428–017727. Decision of commissioner canceling entry.

United States *v.* Ernest B. Stratton: Grazing trespass, Minidoka National Forest. Trial United States court, Boise, September 10. Judgment for $154.74.

United States *v.* Herman Decker and Pat Hainey: Fire trespass, Salmon National Forest. Arrest by forest ranger. Preliminary hearing in State court. The sum of $148 was deposited by Decker with probate court and $98 by Hainey with his attorney and tendered in settlement of actual damages and costs.

Law Cases in District 5—

United States *v.* W. J. Mudge: Fire trespass, Sierra National Forest. Case closed upon payment of $71.90, actual damages.

United States *v.* Wm. Kaiser: Fire trespass, Inyo National Forest. Case closed upon payment of $5.60, actual damages.

United States *v.* R. L. Hill: Timber trespass, Sequoia National Forest. Case closed upon payment of $60.16, the last installment due on a judgment obtained for $110.16.

United States *v.* W. H. Guscetti: Grazing trespass, Tahoe National Forest. Case closed upon payment of $14.40, actual, and $85.60, punitive damages.

United States *v.* Lloyd Sutton: Grazing trespass, Santa Barbara National Forest. Case closed upon payment of $5, actual damages.

United States *v.* James Finnell: Fire trespass, California National Forest. Case closed upon payment of $36.80, actual damages.

United States *v.* W. C. Stone: Grazing trespass, Lassen National Forest. Case closed upon payment of $176.54, actual damages.

United States *v.* A. L. Pendola: Grazing trespass, Santa Barbara National Forest. Case closed upon payment of $11.20, actual damages.

United States *v.* Clyde Harrison: Property trespass, Lassen National Forest. Case closed upon payment of $5 for defacing a sign.

United States *v.* True Oil Co.: Fire trespass, Santa Barbara National Forest. Case closed upon payment of $3, actual damages.

United States *v.* Gorham Owl: Fire trespass, Klamath National Forest. Defendant plead guilty and was sentenced to three months in the county jail.

United States *v.* Charles McBurns: Fire trespass, Klamath National Forest. Indictment secured September 27, 1919, Federal grand jury, Sacramento, Calif.

United States *v.* H. H. Ward: Property trespass (Biological Survey). Theft of Government traps. Indictment returned by Federal grand jury at Sacramento, Calif., September 27, 1919.

Law Cases in District 6—

United States *v.* R. G. Huff, D. O. Nelson, and N. C. Cooper: Fire trespass, Chelan National Forest. Trial at Chelan, Wash., September 6, resulting in conviction; each fined $10 and costs.

United States *v.* N. C. Cooper: Fire trespass, Chelan National Forest. Trial at Chelan, Wash., September 6, resulting in conviction; fined $10 and costs.

United States *v.* Max Seat and H. Lasher: Fire trespass, Rainier National Forest. Plead guilty at North Yakima September 12 and was fined $10 and costs.

United States *v.* F. W. Chausse: Fire trespass, Oregon National Forest. Plead guilty, United States district court, Oregon, August 26; fined $1.

United States *v.* R. T. Jacobs, Dr. J. B. Fenton, Dr. J. A. B. Fry, and A. Wenkter: Fire trespass, Oregon National Forest. Plead guilty August 28, Federal court, Oregon; fined $5 each.

United States *v.* L. J. Moore: Fire trespass, Oregon National Forest. Plead guilty, United States Federal court, Oregon, August 27; fined $5.

United States *v.* A. C. Barber: Fire trespass, Santiam National Forest. Plead guilty, United States Federal court, Oregon, August 28; fined $5.

United States *v.* G. R. and A. L. French: Fire trespass, Oregon National Forest. Plead guilty, United States Federal court, Oregon, August; fined $25 each.

United States *v.* Danaher Lumber Co.: Fire trespass, Snoqualmie and Washington National Forests. Closed September 6 on compromised settlement; payment of $2,000 for damages and expense of fighting fire.

United States *v.* John H. Harrison: Grazing trespass, criminal, Deschutes National Forest. Information dismissed; case closed September 20 on compromised settlement; payment of $64.80, actual, and $10.20, punitive damages; total, $75.

United States *v.* C. S. Howell: Grazing trespass, Colville National Forest. Closed September 3 on payment of $27, actual damage.

United States *v.* Orrin Graeber: Grazing trespass, Colville National Forest. Closed August 22 on payment of $19.35, actual damage.

United States *v.* L. D. Hoy: Grazing trespass, Fremont National Forest. Closed August 11 on payment of $126, actual, and $250, punitive, damages.

United States *v.* C. S. Woods: Grazing trespass, Deschutes National Forest. Closed June 30 on payment of $94.16, actual, and $150, punitive, damages.

United States *v.* Pete Bidegary: Grazing trespass, Fremont National Forest. Closed August 29 on payment of $11.25, actual, and $150, punitive, damages.

United States *v.* Mulligan Bros.: Grazing trespass, Minam National Forest. Closed August 2 on payment of $15, actual, and $50, punitive, damages.

United States *v.* S. Leon Grimmett: Grazing trespass, Siskiyou National Forest. Closed August 4 on payment of $3.84, actual, and $10, punitive, damages.

United States *v.* H. Walters: Grazing trespass, Whitman National Forest. Closed July 15 on payment of $122.40, actual damage.

United States *v.* Dave Lee and W. J. Murphy: Grazing trespass, Whitman National Forest. Closed August 6 on payment of $68.25, actual damage.

In addition to the above list, there were 23 fire trespass cases in which this office took no part, but which were acted upon by Forest officers under the State law and which resulted in fines aggregating $425 besides costs. In one case also three persons were held for action by the grand jury and one information filed by this office.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 676.—The Relation of the Shrinkage and Strength Properties of Wood to Its Specific Gravity.

Department Bulletin 790.—Range Management on the National Forests.

Department Bulletin 791.—Plant Succession in Relation to Range Management.

Unnumbered Publication.—A Summer Vacation in the Sopris National Forest.

Unnumbered Publication.—Out-of-Door Playgrounds of the San Isabel National Forest.

Unnumbered Publication.—Vacation Trips in the Holy Cross National Forest.

Unnumbered Publication.—Out-door Life in the Colorado National Forest.

Unnumbered Publication.—Vacation Land—The National Forests in Oregon.

Unnumbered Publication.—Arbor Day (booklet).

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[October, 1919.]

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1919

No. 20 Issued January 15, 1919

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, Forester.

January Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

EDITOR.—HERBERT A. SMITH.
INFORMATION.—PAUL D. KELLETER.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
EXHIBITS.—C. A. LINDSTROM.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.

OPERATION.

ROY HEADLEY, assistant forester in charge; G. G. ANDERSON, administrative assistant.

ORGANIZATION.— ———.

MAINTENANCE.—BILLIE I. SHANNON.

STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS.

SUPPLIES.—S. L. MCLAURIN.

FINANCE.—D. D. BRONSON.

FOREST FIRE PROTECTION.—JOHN D. JONES, acting.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

FOREST MANAGEMENT.

W. B. GREELEY, assistant forester, in charge; HARRY IRION, office assistant.

WESTERN DIVISION.—R. Y. STUART, forest inspector, in charge; C. G. SMITH, forest inspector.

EASTERN DIVISION.—E. E. CARTER, forest inspector, in charge; J. G. PETERS, forest inspector; L. S. MURPHY, C. R. TILLOTSON, and J. A. MITCHELL, forest examiners.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, logging engineer.

COMPILATION OF STATE FOREST LAWS.—MISS J. S. PEYTON.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. PETERS, in charge; L. S. MURPHY and J. A. MITCHELL.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; ———, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

GRAZING.

WILL C. BARNES, assistant forester in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge; William R. Chapline, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

ACQUISITION.—W. W. ASHE, forest inspector, in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham, N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah, Massanutten, and Potomac Areas, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge Area, H. M. Sears and party, Buena Vista, Va.; Unaka and White Top Areas, W. E. Hedges, and party, Johnson City, Tenn.; Boone and Mount Mitchell Areas, M. A. Mattoon and party, Asheville, N. C.; Savannah Area, C. H. Burrage, Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow and party, Moulton, Ala.; Ozark Area, William P. Dale, forest examiner, and W. P. Kramer, forest assistant, Russellville, Ark.; Arkansas Area, J. A. Bateman and H. A. Regan, national forest examiners, Hot Springs, Ark.

SURVEY OF LANDS.—RUDOLPH DIEFFBENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Paul G. Jenney, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Pisgah Area, Walter H. Sullivan, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.; Cherokee Area, Carl F. Muzzey, Athens, Tenn.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va.; Alfred S. Griggs, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Franklin, N. C.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.; Judson S. Bohannan, Double Springs, Ala.; John W. Van Hoy, Mena, Ark.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA; A. F. HAWES; FRANKLIN H. SMITH; A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.; STANLEY L. WOLFE; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; J. KITTREDGE, Jr., acting in charge.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, E. H. Frothingham, and W. R. Mattoon. Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Experiment Stations:

CLOQUET, in cooperation with the University of Minnesota.—W. H. KENETY, Cloquet, Minn.

PRIEST RIVER, KANIKSU NATIONAL FOREST.—JULIUS A. LARSEN, forest examiner acting in charge, Priest River, Idaho.

FREMONT, PIKE NATIONAL FOREST.—C. G. BATES, silviculturist. in charge, Box 1068, Colorado Springs, Colo.

WAGON WHEEL GAP, RIO GRANDE NATIONAL FOREST.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

FORT VALLEY COCONINO NATIONAL FOREST.—G. A. PEARSON, forest examiner in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

———. —C. F. KORSTIAN, forest examiner, Ogden, Utah.

———. —E. N. MUNNS, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—JULIUS V. HOFMANN, forest examiner in charge, Stabler (railroad point, Carson), Wash.; Chas. J. Kraebel, forest examiner.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; C. V. Maudlin, assistant engineer in forest products.

Publication of Results.— ———, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

PULP AND PAPER.—OTTO KRESS, in charge; Sidney D. Wells, V. P. Edwardes, C. L. Bachelder, Walter Daley.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), G. E. Heck, H. S. Grenoble, R. P. A. Johnson, R. F. Luxford, J. R. Watkins, C. B. Norris, John M. Gahagan.

Box Tests.— ———, in charge; J. B. Frear, C. A. Plaskett.

TIMBER PHYSICS.—ROLF THELEN, in charge; C. V. Sweet, A. Koehler, Miss Eloise Gerry, M. C. Jensen, Lawrence V. Teesdale, D. R. Brewster, J. D. Studley, W. K. Loughborough, Miss Gertrude Griffin.

WOOD PRESERVATION.—GEORGE M. HUNT, in charge; Matthew E. Dunlap, P. R. Hicks, Alfred C. Lindauer, Frederick L. Browne, T. R. Truax, Clarence Coye, J. D. MacLean, W. L. Jones, C. A. Harrison.

Laminated Wood Studies.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, Carl A. Menzel, R. M. Wirka.

LUMBER STUDIES.— ———, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Miss C. Audrey Richards.

LABORATORY OPERATION.—Charles P. Juckem, executive clerk.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson.

Photography.—M. E. Diemer.

Computing.—Kenneth Scott.

Library.—Miss S. D. Kinney.

Supplies.—W. E. Thompson.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, R. K. Helphenstine, jr., J. S. Mathewson. E. F. McCarthy, collaborator.

ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

ROADS.—T. W. NORCROSS, in charge; JOHN L. COBBS, forest examiner.

WATER POWER.—RALPH R. RANDELL, assistant engineer in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

Engraving.—T. S. BROCK.

Photography.—E. S. SHIPP.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.— ———, assistant district forester; G. I. PORTER, executive assistant; ELERS KOCH, fire suppression; R. B. ADAMS, telephone engineer; LEWIS C. STOCKDALE, improvements.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—ELERS KOCH, in charge; J. C. Van Hook, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

MAINTENANCE.—O. C. BRADEEN.

SILVICULTURE.—J. F. PRESTON, assistant district forester; J. A. FITZWATER, forest examiner.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field Supervision, ———.

PLANTING.—E. F. WHITE and W. M. NAGEL. Savenac Nursery, N. S. Olson, planting assistant, Haugan, Mont.

PRODUCTS.—C. L. BILLINGS, lumberman; C. N. WHITNEY, forest examiner.

INSECT CONTROL.—. ———.

FOREST INVESTIGATIONS.—W. C. LOWDERMILK.

JAMES R. WEIR, consulting pathologist; E. E. HUBERT, assistant, 408 Columbia Building, Spokane, Wash.

GRAZING.—GLEN A. SMITH, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

GRAZING RECONNAISSANCE.—W. R. SCHOFIELD.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBEE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); P. A. Wohlen, fire assistant.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. C. Delavan, fire assistant; Philip Neff, lumberman; V. C. Sheffield, forest examiner.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); R. N. Cunningham, fire assistant.

Pend Oreille.—L. G. HORNBY, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—F. J. JEFFERSON, forest supervisor, Kooskia (WU); F. J. Klobucher and F. T. Carroll, fire assistants.

St. Joe.—DWIGHT L. BEATTY, forest supervisor, St. Maries (Continental); A. S. Hauge, lumberman; A. J. Roche, fire assistant.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); W. L. Lay, deputy forest supervisor; J. P. Maloy, forest examiner.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. O. Benson, forest examiner.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU, P); Mallory N. Stickney and John H. Clack, deputy forest supervisors; A. J. Devan, fire assistant.

Blackfeet.—R. P. MCLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman; F. E. Brown, fire assistant.

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU).

Deerlodge.—FAY G. CLARK, forest supervisor, Butte (P); W. W. Weber, deputy forest supervisor; W. C. Latane and J. C. Ketridge, forest examiners.

Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); E. A. Anderson, deputy forest supervisor; C. S. Webb, lumberman; Kenneth Wolfe, H. L. Redlingshafer, and Chas. J. Hash, fire assistants.

Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU); J. C. De Camp, deputy forest supervisor; John B. Taylor, forest examiner.

Helena.—C. K. McHarg, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.

Jefferson.—W. B. Willey, forest supervisor, Great Falls (WU); A. C. Adams, deputy forest supervisor.

Kootenai.————, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor; C. E. Sutton, forest examiner; C. B. Baker, fire assistant.

Lewis and Clark.—Burr W. Clark, forest supervisor, Choteau (WU).

Lolo.—A. M. Baum, forest supervisor, Missoula (WU, P); A. B. Hodgins, lumberman; G. W. Jones, forest examiner; R. A. Phillips, fire assistant.

Madison.—W. J. Derrick, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.

Missoula.—Rutledge Parker, forest supervisor, Missoula (WU, P); Frank Foltz, fire assistant.

Sioux.—J. C. Whitham, forest supervisor, Miles City (WU); W. L. Baldwin, forest examiner.

WASHINGTON.

Kaniksu.—H. R. Flint, forest supervisor, Newport (WU via Priest River-Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner; J. S. Baird, lumberman; G. W. Kitch, fire assistant.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

FRED MORRELL, acting district forester; W. I. Hutchinson, information; Peter Keplinger, education.

LAW.—Office of the Solicitor (Forest Service branch). Geo. E. Trowbridge, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. Craft, district fiscal agent.

OPERATION.—Fred Morrell, assistant district forester; John McLaren, national forest examiner, fire protection; H. R. Kylie, telephone engineer; Arthur M. Cook, improvements.

State Cooperative Fire Protection under the Weeks Law.—John McLaren, in charge; ———, State forester, Custer, S. Dak., collaborator.

Maintenance.—F. H. Carroll.

SILVICULTURE.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; J. A. DONERY, lumberman.

RESEARCH.—P. J. PAXTON, forest examiner.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. PEARCE, forest examiner.

PLANTING.—FRED R. JOHNSON.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge; JESSE M. MANN and H. W. ELOFSON, grazing assistants.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.—J. BURGESS.

Drafting.—C. B. GOSORN, acting.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE.

WATER POWER.—FRED D. MENDENHALL.

NATIONAL FORESTS.

COLORADO.

Arapaho.—E. W. TINKER, forest supervisor, Hot Sulphur Springs (WU).

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); M. J. Sweeney, forest examiner.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross-Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); G. M. Hunter, deputy forest supervisor; Robert H. Easterbrooks, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).

Montezuma.—A. F. C. HOFFMAN, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—ARTHUR T. UPSON, forest supervisor, Denver (WU, P); Wm. R. Fraser, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU); Alve L. Richey, deputy forest supervisor.

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Uncompahgre.—DWIGHT S. JEFFERS, forest supervisor, Delta (WU); Harold L. Borden, forest examiner.

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Chas. L. Cecil, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); John V. Leighou, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.
Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).
Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Andrew Hutton, forest examiner; Jas. C. Jensen, lumberman.
Shoshone.—J. W. LOWELL, Jr., forest supervisor, Cody (WU); E. T. Wolf, forest examiner.
Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester; WARD SHEPARD, forest examiner, educational cooperation, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; H. G. CALKINS, forest supervisor; EDWARD P. ANCONA, deputy forest supervisor.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOT and C. K. COOPERRIDER, grazing examiners.

LANDS.— ———, assistant district forester; FRANK E. ANDREWS, forest supervisor, acting in charge; M. M. CHENEY, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. E. LANDON.

Entry Surveys.—A. W. HENDRIX and NELSON F. NEWMAN, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER, CHAS. H. KISSAM, R. L. HUGHES.

WATER POWER.—C. A. LONG, in charge.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

Coconino.—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.

Coronado.— ———, forest supervisor, Tucson (WU); H. Basil Wales, forest supervisor, acting in charge; Stanley F. Wilson, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—ROBERT L. DEERING, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.— ———, forest supervisor, Williams (WU, P); Francis L. W. Grubb, deputy forest supervisor, acting in charge; Chester V. Christensen, deputy forest supervisor.

NEW MEXICO.

Carson.—JOHN D. GUTHRIE, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; CHAS. D. SIMPSON, acting assistant district forester; CARL B. ARENTSON, forest supervisor, executive assistant; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.————, in charge; I. H. Nash, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—CLYDE M. GWIN.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—LAWRENCE J. PALMER, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr., in charge.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS, assistant.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU).

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.

Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.

Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU); Wallace M. Riddle, deputy forest supervisor.

Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).

La Sal.—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).

Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).

Minidoka.—See Idaho.

Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).

Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU); R. D. Garver, forest examiner.

Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.

Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU); Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

ECONOMIC STUDIES.—C. A. KUPFER.

INFORMATION.—R. F. HAMMATT, in charge; ———, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—~~DON P. JOHNSTON~~, assistant district forester.

FINANCE.—C. WILEY, national forest inspector.

PERSONNEL.—PAUL P. PITCHLYNN, forest supervisor.

IMPROVEMENT.—C. E. JORDAN, national forest examiner. F. H. HAFLEY, telephone engineer.

FIRE COOPERATION.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. Homans, State forester, Sacramento, Calif., collaborator.

PURCHASE.—F. ~~HAYNIE~~, national forest inspector.

LAW ENFORCEMENT.—C. L. HILL, forest examiner, in charge. C. V. BRERETON, national forest examiner, field investigations.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.— ———.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

RESEARCH.—S. B. SHOW, forest examiner in charge; E. N. MUNNS and DUNCAN DUNNING, forest examiners.

INSECT CONTROL.— ———.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; ~~J. S. BOYCE~~, H. G. LACHMUND, ARTHUR S. RHOADS, R. A. STUDHALTER, N. REX HUNT, assistants.

GRAZING.—~~C. E. RACHFORD~~, assistant district forester.

STUDIES.—~~F. D. DOUTHITT~~, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—S. W. WYNNE, in charge; PERCY L. DAY, S. N. STONER, field surveys.

Drafting.—H. A. SEDELMEYER, acting.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.— ———, forest supervisor, San Diego (WU).

Eldorado.— ———, forest supervisor, Placerville (WU).

Inyo.—~~G. E. JORDAN~~, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU); Sherley W. Allen, forest examiner.

Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Weislander, forest examiner.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); Richard A. Colgan, jr., forest examiner; George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU); Wm. F. Derby, deputy forest supervisor.

Shasta.—~~N. H. SLOANE~~, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursey, Roscoe Weaver, forest examiner.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU); M. R. Brundage, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU); Geo. W. Lyons, forest examiner.

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Minden (WU).

Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK and H. M. WHITE, national forest inspectors; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; W. B. OSBORNE, Jr., forest examiner, fire protection; H. L. PLUMB, forest examiner, trails.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

SILVICULTURE.—F. E. AMES, assistant district forester.

TIMBER SALES.—F. E. AMES; THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, GEO. L. DRAKE, and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEITKNECHT, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—T. M. TALBOTT, national forest examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

RECREATION.—FRED W. CLEATOR, forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.— ———.

Surveys.— ———.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU).

OREGON.

Cascade.—N. F. MACDUFF, forest supervisor, Eugene (WU, P).

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); W. O. Harriman, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—E. H. MACDANIELS, forest supervisor, Grants Pass (WU, P); T. M. Hunt, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); E. H. Vincent, deputy forest supervisor.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); E. O. Blankenship, deputy forest supervisor.

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).

Colville.—C. C. REID, forest supervisor, Republic (WU, P).

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; A. A. Griffin and O. F. Ericson, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—W. G. WEIGLE, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., forest supervisor; Edward J. Hanzlik, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU); W. F. Ramsdell, forest examiner.

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, ENGINEERING, } H. O. STABLER, assistant district forester; JOHN W. FOX, assistant engineer.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester; E. V. CLARK, national forest examiner.

GRAZING, LANDS, } F. W. REED, district forester; W. F. HILL, national forest examiner.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, forest ranger in charge, Moulton.

ARKANSAS.

Arkansas.—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor; R. C. Huey, national forest examiner.

Ozark.—BEN F. VAUGHAN, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.

Savannah.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); H. R. Currier, deputy forest supervisor; E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); Ira T. Yarnall, forest examiner.

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Franklin (WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens (WU, P); C. E. Beaumont, forest examiner.

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest supervisor, Johnson City (WU, P); W. E. Hedges, national forest examiner.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P); Wm. H. Stoneburner, deputy forest supervisor.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

LABORATORY.—W. L. Jones, engineer in forest products. W. K. Loughborough, assistant engineer in forest products. Jacob M. Fix, Julius Moehlman, and Stanley Oldham, laboratory aids and engineers. Gladys D. Tyrrell and Olive M. Parr, laboratory helpers. Emily H. Vojacek, clerk (stenographer and typewriter). Melva Lappley, messenger. Eber T. Giles, carpenter.

DISTRICT 1.—L. F. Jefferson (reinstatement) and Fred C. Wilfong, Jefferson; Wm. J. Bell, Bitterroot; Edward Mackay, Lolo; E. D. Eiselstein, Coeur d'Alene; Eugene J. Rogers, Lewis and Clark, forest rangers. John B. Taylor (reinstatement), Clearwater, forest examiner. Murray E. Skillman, Deerlodge, scaler. Mary S. Hall and Olive Leaf, Deerlodge; Ella M. Treichler, Jefferson, clerks (stenographers and typewriters). Olive B. White and Gladys I. Jackson, Helena; Lillian E. Pepper, Gallatin; Thomas G. Watson, clerks (typewriters). Anna E. Veleber, Beaverhead, clerk (stenographer). George A. Duncan, surveyor-draftsman.

DISTRICT 2.—Herbert J. Devries, Pike, clerk (stenographer and typewriter). Clair V. Cooke (reinstatement), Harney, forest ranger. Harry W. Elofson, grazing assistant. William O. P. Fullerton, surveyor. Austin P. Russell, surveyor-draftsman. H. Ellis Sealing (reinstatement), draftsman (topographic). Elsie L. Egerer, clerk (stenographer and typewriter). Eleanor L. Wright, clerk (typewriter).

DISTRICT 3.—Morton M. Cheney (reinstatement), national forest examiner. Joseph P. W. Arnold, surveyor (draftsman). Johnathan L. Hughes (reinstatement), Carson; William R. Warner (reinstatement), Gila; Bert I. Menzies, Prescott, forest rangers. Joseph Henry Lackey, Carson; Nina Harbeson, Coconino; Rosemary R. Campbell, Prescott, clerks.

DISTRICT 4.—Carl B. Arentson (reinstatement), forest supervisor. Effie J. McQueen, Nevada, clerk (typewriter). Leonard K. Higgins, unskilled laborer.

DISTRICT 5.—Mrs. Christel L. Decker and Gertrude R. Rath, clerks (stenographers and typewriters).

DISTRICT 6.—Robert E. Foote, Colville; James Douglas Johnson, Deschutes; Harvey S. Albertson and Richard E. Grantham, Okanogan; Fred M. Gruver, Siskiyou; Leroy Erskine Garwood (reinstatement), Siuslaw; Chauncey E. Bullen, Snoqualmie, forest rangers. Emma L. Graber, Mildred G. Sinnott, and Ada A. Wiest, clerks (stenographers and typewriters).

DISTRICT 7.—Nettie B. Kilgore, Arkansas, clerk. Charles W. Fritts, Ozark; J. Wm. Bowman, Shenandoah, forest rangers.

PROMOTED IN RANK.

OPERATION.—Roy Headley, from assistant district forester to assistant forester. Evan W. Kelley, from national forest examiner to inspector.

ACQUISITION.—Herbert A. Regan, forest ranger to national forest examiner.

LABORATORY.—R. P. A. Johnson, J. R. Watkins, and J. D. MacLean, assistant engineers to engineers. C. A. Harrison, laboratory aid and engineer to assistant engineer in forest products.

DISTRICT 1.—Richard H. Rutledge, assistant district forester to district forester. Glen A. Smith, Kootenai, forest supervisor to assistant district forester. Thomas P. Maloy, Missoula, forest assistant to forest examiner. James E. Ryan, Pend Oreille; O. C. Bradeen, deputy forest supervisors to forest supervisors. Leslie G. Vinal, Kootenai, deputy forest supervisor to fire assistant. Lee Stratton, Missoula, forest clerk to deputy forest supervisor. J. W. Stanton, Custer; E. H. Myrick, Flathead; Clyde P. Fickes, Nezperce; E. J. Yeomans, Jefferson, forest rangers to deputy forest supervisors.

DISTRICT 3.—Edward P. Ancona, deputy forest supervisor to forest supervisor. John A. Adams, Coconino, forest ranger to deputy forest supervisor. Jack E. Marlowe, forest ranger to grazing examiner.

DISTRICT 5.—Frank Haynie, compiler to national forest inspector.

DISTRICT 6.—William O. Harriman, Deschutes, forest ranger to deputy forest supervisor. Fred W. Cleator, deputy forest supervisor to forest supervisor.

DISTRICT 7.—Andrew J. James, Arkansas, forest ranger to scaler.

CHANGE IN DESIGNATION.

DISTRICT 1.—E. J. Yeomans and G. Willard Jones, Lolo, forest examiners to forest rangers. Lawrence D. Dunn, Pend Oreille, forest assistant to forest ranger. Henry Wold, forest ranger to forest clerk.

DISTRICT 2.—James L. Brownlee, junior engineer to senior engineer. Lionel C. Anderson, Medicine Bow, forest assistant to forest ranger.

DISTRICT 3.—Frank E. Andrews, national forest examiner to forest supervisor.

DISTRICT 4.—Charles D. Simpson, forest supervisor to forest examiner.

DISTRICT 5.—Richard A. Colgan, jr., industrial examiner in forest products to forest examiner.

DISTRICT 6.—Willett F. Ramsdell, deputy forest supervisor to forest examiner.

DISTRICT 7.—Tollie T. Hall, Ozark, forest ranger to clerk.

RESIGNED.

ACQUISITION.—William L. Hall, assistant forester. Frank T. Murphy and Walter J. Damtoft, forest examiners. Samuel Corbin, forest assistant. Robert C. Brown, forest ranger.

RESEARCH.—John T. Harris, statistician in forest products.

LABORATORY.—J. D. Deihl, administrative assistant. A. Elmendorf, C. H. Teesdale, and H. D. Frary, engineers in forest products. E. P. Connor, L. K. Pomeroy, Russell E. Pedder, Richard M. Nash, and Gaige S. Roberts, laboratory aids and engineers. Edward Caluwaert and Francis S. Gombar, laboratory helpers. Mrs. Blithe A. Edwards, Bernice Albright, Lynn Lillesand, and W. W. Jones, clerks (computing). Ella Dahle and Mrs. Maleta MacMurray, clerks (stenographers and typewriters). Clifton M. Tuttle, photographer (second grade).

DISTRICT 1.—Fred W. Beier, deputy forest supervisor. Clark Miles, Kootenai, fire assistant. Fred Millwood, Coeur d'Alene; A. E. Beckwith, Kootenai; John P. Bonham, Jefferson; Ashton V. Kunkel, Nezperce; Harrison M. Crane, Gallatin; Paul H. Gerrard, Clearwater; James W. Parker, Absaroka; Frank S. Pitt, Selway, forest rangers. R. L. Hess, Kootenai, scaler. Lucy L. Likes and Ada M. Argall, St. Joe; Thelma Jensen, Beaverhead; Florence Coffin, Selway; Myrtle E. Vealey, clerks (stenographers and typewriters).

DISTRICT 2.—Howard H. Richmond, Arapaho, forest examiner. Warner Tyler, White River, forest clerk. Mrs. Ruth B. Woods, Shoshone, clerk (stenographer and typewriter). Forrest E. Young, Shoshone; John C. Peryam, Hayden; Edmund Couch, Leadville; Clyde E. Green, Michigan; Charles W. Frost, San Juan, forest rangers. William O. P. Fullerton, surveyor. Eleanor L. Wright, clerk (typewriter).

DISTRICT 3.—Frank D. Yost, surveyor. J. Wilbur O'Byrne, Coconino, forest examiner. John J. Gaulrapp and Clarence Weatherford, Datil; Oscar J. Williams, Santa Fe; Carl H. Riblett, Sitgreaves; Bent S. Benson, Tonto, forest rangers. Jay Montgomery, Tusayan, forest clerk.

DISTRICT 4.—John C. Benson, Dixie; Henry W. May, Idaho; Frederick L. Mott, Toiyabe; Andrew Romero and Irvin M. Varner, Cache,

forest rangers. Emyr E. Jones, Ashley, clerk (typewriter). Cedric A. Martin, surveyor. Joseph W. Tite, messenger boy.

DISTRICT 5.—Coert Du Bois, district forester. Lewis Carrigan, deputy forest supervisor. M. Raymond Tillotson, Cleveland, forest supervisor. Elmer L. Scott, Eldorado, deputy forest supervisor. Harold T. Williams, Mono; Stephen A. Douglass, Santa Barbara; Robert R. Martin and Frank L. St. Clair, Sequoia; Archer E. Roberts, Shasta; Benjamin H. Randolph, Trinity, forest rangers. John T. Noddin, Lassen, scaler. Clarence W. Griggs, Plumas, forest clerk. Ralph Hopping, national forest examiner. Chas. E. Miller, draftsman. Alice M. Tooley, Catherine A. Maher, and Cecil E. Newman, clerks (stenographers and typewriters). Clara C. Lund, messenger.

DISTRICT 6.—Harry R. Elliott, Colville; William F. Burge, Malheur; James F. Hutton and Gustavus A. Whitehead, Olympic; John B. Curl, Siskiyou; William F. Rankin, Whitman, forest rangers. Maude Sheidler, Wenatchee, clerk (stenographer and typewriter). Benjamin A. Eddy, surveyor.

DISTRICT 7.—Francis Kiefer, assistant district forester. Joseph R. Gill, Arkansas; James M. Wait, Ozark; Max McCullough, Cherokee-Georgia; Ralph McCormick, White Top, forest rangers. John C. Vandivier, Arkansas, scaler.

With deep regret announcement is made of the death of Harold M. Morrison, forest ranger, district 4, December 12.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

FORESTER.

Organization of Branch of Forest Management.

The return of the men from France makes possible the readjustment of the organization of Silviculture to the new conditions. It is my desire to broaden the scope of the work of the Branch, with special view to the promotion of the practice of forestry outside the National Forests. Until his resignation Mr. Hall was my immediate assistant in the work of forwarding the new forestry movement. This work will now be assigned to the Branch of Silviculture. The extension work on farm woodlands and assistance to private owners in the practice of silviculture will be transferred from Research to Silviculture.

The development of the practice of forestry on private as well as public lands calls for more specialized direction in the overhead organization. To secure this it is desirable to divide the work of the East from that of the West, and thus to establish an eastern and a western division. The western division will be in charge of Forest Inspector R. Y. Stuart, and the eastern division in charge of Forest Inspector E. E. Carter. Each of these men will assist the chief of Branch in the direction of all the work of the Branch within his respective division. In effect these men will be associate chiefs of Branch, to whom the chief will delegate large authority in their respective fields. Either of them, however, is subject to call to aid in the field of the other, just as any of the other assistants in the Branch may be called upon to do work outside of the district constituting his main assignment. Field inspection by the officer in charge and his assistants will ordinarily be limited to their own division.

WESTERN DIVISION.

This division will be responsible for the silvicultural and management work on National Forests west of the Great Plains, for cooperation with other Federal agencies, and for State cooperative work in this region, including cooperation under the Weeks law, and for the extension and application of forestry on private lands. These activities will be conducted through the existing district organizations. The

western division will draw freely upon the personnel in the former office of State cooperation for help and advice in conducting State cooperative work, but Mr. Peters is relieved from further responsibility for such work in the Western States, which will rest hereafter with the western division.

Forest Inspector C. G. Smith is assigned as assistant to the officer in charge of the western division.

EASTERN DIVISION.

This division will be responsible for the silvicultural and management work on National Forests east of the Great Plains, including the States east of North and South Dakota, Nebraska, Kansas, and New Mexico, for cooperation with other Federal agencies and for State cooperative work in this region, and for the extension and application of forestry on private lands. The cooperative and extension work will be conducted through the existing district organizations to the extent practicable. The functions of district 7 in these activities, within the territory under its jurisdiction, will be defined by the officer in charge of the division. It will also be necessary to conduct a large part of the eastern cooperative and extension work directly from the office of the eastern division by personnel assigned to that office.

The office of State cooperation will be discontinued. Mr. Peters is assigned as assistant to the officer in charge of the eastern division. He will continue to be the Service expert on State legislation and cooperative work, but it is anticipated that his duties will be broadened in character to include participation in the work of the Branch dealing with eastern National Forests. The other personnel in State cooperation is assigned to the eastern division. Mr. Cary will also report to the officer in charge of that division, who will make such assignments of the personnel in his office as will most effectively discharge the responsibilities of the division.

EXTENSION OF FORESTRY TO PRIVATE LANDS.

The Branch of Silviculture will be responsible hereafter for the extension of forestry to private lands, including all phases of cooperation with the States in forest protection and management. Each district forester will make such assignments, with the approval of the Branch, as are necessary to provide for the extension and cooperative work in his district. The chief of Branch will make such additional assignments to the eastern or western division and such allotments of special duties as are necessary to provide for the general features of the extension program and for extension and cooperative work in undistricted territory.

The foregoing organization will become effective January 15, 1920. On the same date the name of the Branch of Silviculture will be changed to the Branch of Forest Management. No changes in existing file designations are necessary. The Forestry Program file will, however, be given an "S" designation hereafter and carried in the Branch.

H. S. GRAVES,
Forester.

SERVICE PUBLICATIONS ISSUED.

Circular 148, Office of the Secretary.—A Policy of Forestry for the Nation.

Unnumbered Publication.—Report of the Forester for 1919.

Unnumbered Publication.—Tight and Slack Cooperage Production in 1918.

Unnumbered Publication.—Area Table.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1920

No. 21. Issued April 15, 1920.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE,
WILLIAM B. GREELEY, Forester.

April Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

WILLIAM B. GREELEY, Forester.

EDWARD A. SHERMAN, Associate Forester.

EDITOR'S OFFICE.—HERBERT A. SMITH, assistant forester in charge.
INFORMATION.—JOHN L. COBBS, JR.
TECHNICAL REVIEW.—L. C. EVERARD.
PROOFS AND FORMS.—C. M. BALLARD.
EXHIBITS.—C. A. LINDSTROM.
DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.
ACCOUNTS.—M. E. FAGAN, chief.

OPERATION.

ROY HEADLEY, assistant forester in charge; PAUL D. KELLETER, general assistant; G. G. ANDERSON, assistant in personnel; EVAN W. KELLEY, inspector.

MAINTENANCE.—BILLIE I. SHANNON.

STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS.

SUPPLIES.—S. L. MCLAURIN.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

FOREST MANAGEMENT.

E. E. CARTER, assistant forester in charge; HARRY IRION, office assistant.

WESTERN DIVISION.—R. Y. STUART, forest inspector in charge; C. G. SMITH, forest inspector.

EASTERN DIVISION.—E. E. CARTER, assistant forester in charge; J. G. PETERS, forest inspector; L. S. MURPHY, C. R. TILLOTSON, and J. A. MITCHELL, forest examiners.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, logging engineer.

COMPILATION OF STATE FOREST LAWS.—MISS J. S. PEYTON.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. PETERS, in charge; L. S. MURPHY and J. A. MITCHELL.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; J. H. Foster, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; M. C. Hutchins, State fire warden, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; G. H. Wirt, chief forest fire warden, Harrisburg, Pa.; F. W. Besley, State forester, Baltimore, Md.; A. B. Hastings, assistant State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; ———, State forester, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

GRAZING.

WILL C. BARNES, assistant forester in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing in charge; William R. Chapline, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, Associate Forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS, OCCUPANCY, AND SETTLEMENT.—C. H. SQUIRE, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

ACQUISITION.—W. W. ASHE, forest inspector in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham, N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah, Massanutten, and Potomac Areas, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge Area, H. M. Sears and party, Buena Vista, Va.; Unaka and White Top Areas, W. E. Hedges and party, Johnson City, Tenn.; Boone and Mount Mitchell Areas, M. A. Mattoon and party, Asheville, N. C.; Savannah Area, C. H. Burrage, Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow and party, Moulton, Ala.; Ozark Area, William P. Dale, forest examiner, and W. P. Kramer, forest assistant, Russellville, Ark.; Arkansas Area, J. A. Bateman and H. A. Regan, national forest examiners, Hot Springs, Ark.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney and Paul G. Jenney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.; Cherokee Area, Carl F. Muzzey, Athens, Tenn.; Monongahela Area, Walter H. Sullivan, Elkins, W. Va.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va.; Alfred S. Griggs, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.; Judson S. Bohannan, Double Springs, Ala.; John W. Van Hoy, Mena, Ark.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA, forest economist and assistant chief; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; J. KITTREDGE, Jr., acting in charge.

Studies.—E. H. Frothingham, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, and W. R. Mattoon. Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Experiment Stations:

CLOQUET, in cooperation with the University of Minnesota—W. H. KENETY, Cloquet, Minn.

PRIEST RIVER, KANIKSU NATIONAL FOREST.—JULIUS A. LARSEN, forest examiner acting in charge, Priest River, Idaho.

FREMONT, PIKE NATIONAL FOREST.—C. G. BATES, silviculturist in charge, Box 1068, Colorado Springs, Colo.

WAGON WHEEL GAP, RIO GRANDE NATIONAL FOREST.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

FORT VALLEY COCONINO NATIONAL FOREST.—G. A. PEARSON, silviculturist in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

———.—C. F. KORSTIAN, forest examiner, Ogden, Utah.

———.—E. N. MUNNS, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—JULIUS V. HOFMANN, forest examiner in charge, Stabler (railroad point, Carson), Wash.; Chas. J. Kraebel, forest examiner.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; C. V. Mauldin, assistant engineer in forest products.

Publication of Results.— ———, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge.

Distillation and Naval Stores.—L. F. Hawley, Howard N. Calderwood.

Wood Preservatives.—Ernest Bateman, George G. Town.

Ethyl Alcohol.—E. C. Sherrard, G. W. Blanco.

Cellulose Chemistry.—Samuel A. Mahood, D. E. Cable.

PULP AND PAPER.—OTTO KRESS, in charge.

Manufacture of Pulp and Paper.—Sidney D. Wells, C. L. Bachelder, M. W. Bray, Jos. A. Staidl.

Utilization of By-Products.—V. P. Edwardes, Walter C. Daley, C. E. Rupp.

Pulp and Pulpwood Decay.—C. J. Humphrey, Miss C. Audrey Richards.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, assistant in charge; T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), John M. Gahagan.

Comparison of Species.—L. J. Markwardt, R. F. Luxford.

Effect of Treatment on Strength.—T. R. C. Wilson, R. P. A. Johnson.

Fabricated Articles.—G. E. Heck.

Plywood Strength.—L. J. Markwardt, H. S. Grenoble, James R. McAteer.

Structural Timbers.—J. A. Newlin.

Aircraft Study.—J. A. Newlin, G. W. Trayer.

Container Investigations.—T. R. C. Wilson, J. R. Watkins, C. A. Plaskett.

TIMBER PHYSICS.—ROLF THELEN, in charge.

Kiln Drying.—C. V. Sweet, L. V. Teesdale, D. R. Brewster, J. D. Studley, W. K. Loughborough.

Wood Technology.—A. Koehler, Miss Eloise Gerry, Miss Gertrude Griffin, M. C. Jensen.

WOOD PRESERVATION.—GEORGE M. HUNT, in charge.

Laminated Wood Studies.—A. L. Heim, A. C. Knauss, Louis Seutter, Carl A. Menzel, R. M. Wirka.

Glues and Plywood.—Matthew E. Dunlap, T. R. Traux, W. L. Jones, Clarence Coye, Alfred C. Lindauer, Frederick L. Browne, C. A. Harrison.

Preservation.—P. R. Hicks, J. D. MacLean.

INDUSTRIAL INVESTIGATIONS.—ARTHUR M. COOK, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—P. V. SIGGERS, acting in charge; E. E. Hubert.

LABORATORY OPERATION.—ARTHUR UPSON, in charge; Charles P. Juckem, executive clerk.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson.

Photography.—M. E. Diemer.

Computing.—Kenneth Scott.

Library.—Miss S. D. Kinney.

Supplies.—W. E. Thompson.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, R. K. Helphenstine, jr., J. S. Mathewson. E. F. McCarthy, collaborator.

ECONOMIC INVESTIGATIONS.— ———, in charge; A. F. HAWES; FRANKLIN H. SMITH; A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.; STANLEY L. WOLFE.

ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

ROADS.—T. W. NORCROSS, in charge.

WATER POWER.—RALPH R. RANDELL, assistant engineer in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

Engraving.—T. S. BROCK.

Photography.—E. S. SHIPP.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, district forester; R. P. MCLAUGHLIN, educational cooperation, information.

DISTRICT FOREST INSPECTORS.—C. K. MCHARG, Coeur d'Alene, Idaho; Coeur d'Alene and St. Joe. J. A. FITZWATER, Sandpoint, Idaho; Kaniksu and Pend Oreille. W. W. WHITE, Missoula, Mont.; Bitterroot, Lolo, and Missoula. J. D. WARNER, Kalispell, Mont.; Blackfeet and Flathead. W. B. WILLEY, Great Falls, Mont.; Jefferson and Lewis and Clark.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—LEWIS C. STOCKDALE, assistant district forester; G. I. PORTER, executive assistant; ELERS KOCH, fire suppression; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—ELERS KOCH, in charge; J. C. VAN HOOK, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

MAINTENANCE.—O. C. BRADEEN.

FOREST MANAGEMENT.—J. F. PRESTON, assistant district forester; M. H. WOLFF, forest examiner.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field Supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE. Savenac Nursery, D. S. Olson, planting assistant, Haugan, Mont.

PRODUCTS.—C. L. BILLINGS, lumberman; C. N. WHITNEY, forest examiner.

INSECT CONTROL.— ———.

FOREST INVESTIGATIONS.—W. C. LOWDERMILK.

JAMES R. WEIR, consulting pathologist, 408 Columbia Building, Spokane, Wash.

GRAZING.—GLEN A. SMITH, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.— ———, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBEE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—FRANK J. COOL.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); P. A. Wohlen, fire assistant.

Coeur d'Alene.—C. C. DELAVAN, forest supervisor, Coeur d'Alene (WU); Philip Neff, lumberman; James F. Brooks, national forest examiner.

Kaniksu.—J. E. RYAN, forest supervisor, Sandpoint (WU); C. R. Clark, forest examiner; J. S. Baird, lumberman.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); R. N. Cunningham, fire assistant.

Pend Oreille.—L. G. HORNBY, forest supervisor, Sandpoint (WU); J. E. Breen, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—F. J. JEFFERSON, forest supervisor, Kooskia (WU); F. J. Klobucher and F. T. Carroll, fire assistants.

St. Joe.—W. W. WEBER, forest supervisor, Coeur d'Alene (WU); A. S. Hauge, lumberman; A. J. Roche, fire assistant.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); W. L. Lay, deputy forest supervisor; T. P. Maloy, forest examiner.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. O. Benson, forest examiner.

Bitterroot.— ———, forest supervisor, Missoula (WU, P, C); Mallory N. Stickney, deputy forest supervisor; J. H. Clack and A. J. Devan, fire assistants.

Blackfeet.— ———, forest supervisor, Kalispell (WU): R. L. Woesner, lumberman.

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman; F. E. Brown, fire assistant.

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU, C); J. W. Stanton, deputy forest supervisor; W. L. Baldwin, forest examiner.

Deerlodge.—FAY G. CLARK, forest supervisor, Butte (WU, P, C); J. C. Ketridge, forest examiner.

Flathead.—KENNETH WOLFE, forest supervisor, Kalispell (WU); E. H. Myrick, deputy forest supervisor; C. S. Webb, lumberman; E. A. Anderson, C. H. Hash, and H. L. Redlingshafer, fire assistants.

Gallatin.—BURR W. CLARK, forest supervisor, Bozeman (WU, C); J. C. DeCamp, deputy forest supervisor; J. B. Taylor, forest examiner.

Helena.—DWIGHT L. BEATTY, forest supervisor, Helena (WU, P); A. H. Abbott, deputy forest supervisor.

Jefferson.—A. C. ADAMS, forest supervisor, Great Falls (WU, P, C); E. J. Yoemans, deputy forest supervisor.

Kootenai.—LESLIE F. VINAL, forest supervisor, Libby (WU); C. E. Sutton, forest examiner; J. K. Dwinelle, fire assistant.

Lewis and Clark.— ———, forest supervisor, Great Falls (WU, P, C); W. M. Rush, deputy forest supervisor.

Lolo.—A. M. BAUM, forest supervisor, Missoula (WU, P, C); G. W. Jones, deputy forest supervisor; A. B. Hodgins, lumberman; R. A. Phillips, fire assistant.

Madison.—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P, C); Lee Stratton, deputy forest supervisor; Frank Foltz, fire assistant.

WASHINGTON.

Kaniksu.—See Idaho.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

ALLEN S. PECK, district forester; W. I. HUTCHINSON, information.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN MCLAREN, fire protection; H. R. KYLIE, telephone engineer; PETER KEPLINGER, educational training.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—JOHN MCLAREN, in charge; THEO. SHOEMAKER, State forester, Custer, S. Dak., collaborator.

MAINTENANCE.—F. H. CARROLL.

FOREST MANAGEMENT.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; J. A. DONERY, lumberman.

RESEARCH.—P. J. PAXTON, forest examiner.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. PEARCE, forest examiner.

PLANTING.—FRED R. JOHNSON.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing in charge; JESSE M. MANN and H. W. ELOFSON, grazing assistants.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.—J. BURGESS.

Drafting.— ———.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE.

WATER POWER.—FRED D. MENDENHALL.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVE L. RICHEY, forest supervisor, Hot Sulphur Springs (WU).

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); M. J. Sweeney, forest examiner.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU).

Gunnison.—WILLIAM R. KREUTZER, district forest inspector, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross-Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); G. M. Hunter, deputy forest supervisor; Robert H. Easterbrooks, forest examiner.

Leadville.—HAROLD L. BORDEN, forest supervisor, Leadville (WU, P).

Montezuma.—A. F. C. HOFFMAN, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

Pike.—RESS PHILIPS, district forest inspector, Denver (WU, P); Wm. R. Fraser, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant in charge, Monument.

Rio Grande.—R. E. CLARK, district forest inspector, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU).

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Uncompahgre.—DWIGHT S. JEFFERS, forest supervisor, Delta (WU).

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Thos. H. Gill, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); John V. Leighou, forest examiner.

WYOMING.

Bighorn.—E. W. TINKER, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Andrew Hutton, deputy forest supervisor; Jas. C. Jensen, lumberman.

Shoshone.—J. W. LOWELL, Jr., district forest inspector, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester; WARD SHEPARD and EDWARD P. ANCONA, forest examiners, educational cooperation and game protection.

DISTRICT FOREST INSPECTORS.—JOSEPH C. KIRCHER, T. T. SWIFT, Safford, Ariz.; Crook. FRANK E. ANDREWS, Santa Fe., N. Mex.; Santa Fe.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; JAMES F. MULLEN, national forest examiner, assistant chief; H. G. CALKINS, forest examiner, in charge of improvement; L. V. SLONAKER, telephone engineer.

MAINTENANCE.—H. B. HAMMOND.

FOREST MANAGEMENT.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES and MARINUS WESTVELD, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOT and C. K. COOPERRIDER, grazing examiners.

LANDS.—JOHN D. JONES, assistant district forester; M. M. CHENEY, national forrest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. E. LANDON.

Entry Surveys.—A. W. HENDRIX, surveyor.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER, R. L. HUGHES.

WATER POWER.—C. A. LONG, in charge.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

Coconino.—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.

Coronado.—H. BASIL WALES, forest supervisor, Tucson (WU); F. L. W. Grubb, deputy forest supervisor; Stanley F. Wilson, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—ROBERT L. DEERING, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—JAMES A. SCOTT, forest supervisor, Williams (WU, P); George W. Kimball, forest examiner; Chester V. Christensen, deputy forest supervisor.

NEW MEXICO.

Carson.—EARL W. LOVERIDGE, forest supervisor, Taos (WU); Carroll R. Dwire, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk and Robert C. Salton, deputy forest supervisors.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); H. Norton Cope, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.

Manzano.— ———, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor, acting in charge; Charles H. Kissam, national forest examiner.

Santa Fe.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P); R. L. De Camp, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.— ———, assistant district forester; CHAS. D. SIMPSON, acting assistant district forester; CARL B. ARENTSON, forest supervisor, executive assistant; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.— ———, in charge; I. H. NASH, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—CLYDE M. GWIN.

FOREST MANAGEMENT.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.—LAWRENCE J. PALMER, grazing examiner.

LANDS.— ———, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; S. B. LOCKE, forest examiner, fish and game.

RESEARCH.—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr., in charge.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS, R. A. BROWN, C. E. FISH, and O. W. TORGESON, assistants.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

NATIONAL FORESTS.

ARIZONA.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, district forest inspector, Boise (WU); W. M. Campbell, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU); Robert W. Strong, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—R. D. GARVER, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, district forest inspector, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, district forest inspector, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—LYLE F. WATTS, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, district forest inspector, Elko (WU); Oscar W. Mink, deputy forest supervisor.
Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
Cache.—E. C. SHEPARD, district forest inspector, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.
Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU); Wallace M. Riddle, deputy forest supervisor.
Fillmore.—JOHN RAPHAEL, district forest inspector, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
La Sal.—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).
Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).
Minidoka.—See Idaho.
Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).
Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU).
Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, district forest inspector, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU); Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

FOREST PRODUCTS.—C. A. KUPFER.

INFORMATION.—R. F. HAMMATT, in charge; PAUL J. FAIR, exhibits.

DISTRICT FOREST INSPECTOR.—R. H. CHARLTON, Los Angeles, Calif.; Angeles, Cleveland, and Santa Barbara.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester.

FINANCE.—C. WILEY, national forest inspector.

PERSONNEL.—PAUL P. PITCHLYNN, forest supervisor.

IMPROVEMENT.—F. H. HAFLEY, telephone engineer.

FIRE.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. HOMANS, State forester, Sacramento, Calif., collaborator.

LAW ENFORCEMENT.—C. L. HILL, forest examiner, in charge. C. V. BRERETON, national forest examiner, field investigations.

MAINTENANCE.—E. H. SCHMIEDER, in charge.

FOREST MANAGEMENT.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—PERRY EMIGH and J. H. PRICE.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. Evans, forest examiner.

INSECT CONTROL.— ———.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; H. G. LACHMUND, R. A. STUDHALTER, assistants.

RESEARCH.—S. B. SHOW, forest examiner in charge; DUNCAN DUNNING, forest examiner.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.— ——— grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—S. W. WYNNE, in charge; S. N. STONER, in charge field parties.

Drafting.—H. A. SEDELMEYER, acting.

ROADS.—F. H. FOWLER, in charge; J. C. DORT, F. D. BOWLUS.

Minor Roads, Trails, and Improvements.—S. W. WYNNE, C. E. JORDON.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—SHIRLEY W. ALLEN, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. MACE, deputy forest supervisor.

Cleveland.—S. A. BOULDEN, forest supervisor, San Diego (WU).
Eldorado.—E. F. SMITH, forest supervisor, Placerville (WU).
Inyo.—THOS. J. JONES, forest supervisor, Bishop (WU).
Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).
Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Weislander, forest examiner.
Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).
Mono.—See Nevada.
Plumas.—D. N. ROGERS, district forest inspector, Quincy (WU); Richard A. Colgan, jr., forest examiner; George R. Orr, lumberman.
Santa Barbara.—THOS. W. SLOAN, forest supervisor, Santa Barbara (P).
Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU); Wm. F. Derby, deputy forest supervisor.
Shasta.—J. R. HALL, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery, Roscoe Weaver, forest examiner.
Sierra.—M. A. BENEDICT, district forest inspector, Northfork (WU via Friant-Exp. via Friant).
Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU); M. R. Brundage, forest examiner.
Tahoe.—R. L. P. BIGELOW, district forest inspector, Nevada City (WU); Geo. W. Lyons, forest examiner.
Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Minden (WU).
Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester.

INFORMATION.—JOHN D. GUTHRIE, in charge; A. G. JACKSON, education.

DISTRICT FOREST INSPECTORS.—R. M. EVANS, Baker, Oreg.; Minam and Whitman. T. H. SHERRARD, Portland, Oreg.; Oregon. F. H. BRUNDAGE, Portland, Oreg.; Columbia. R. L. FROMME, Olympia, Wash.; Olympic. W. G. WEIGLE, Seattle, Wash.; Snoqualmie.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK and H. M. WHITE, national forest inspectors.

FIRE PROTECTION.—W. B. OSBORNE, JR., forest examiner.

IMPROVEMENT.—M. L. MERRITT, forest examiner.

TELEPHONE ENGINEERING.—C. M. ALLEN, telephone engineer.

TRAILS.—H. L. PLUMB, forest examiner.

LAW ENFORCEMENT.—T. M. TALBOTT, national forest examiner.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. ELLIOTT, State forester, Salem, Oreg.; F. E. PAPE, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

FOREST MANAGEMENT.—F. E. AMES, assistant district forester.

TIMBER SALES.—THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, GEO. L. DRAKE, and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEIDMAN, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND USES.—W. M. H. WOODWARD, mineral examiner.

LAND CLASSIFICATION.—A. H. WRIGHT and ASHER IRELAND, national forest examiners. (Alaska).—WELLMAN HOLBROOK.

RECREATION.—FRED W. CLEATOR, forest supervisor.

LAND EXCHANGES.—RYLE TEED, national forest examiner.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska forests, Ketchikan (SC, U. S. A., WU); Louis King, special fiscal agent, Ketchikan. C. T. BEACH, forest supervisor, Cordova (WU, P); Wm. J. McDonald, deputy forest supervisor, Cordova.

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); CHARLES T. GARDNER, forest supervisor, Ketchikan; Joseph L. MacKechnie, Craig, Alaska; George H. Peterson, Sitka, deputy forest supervisors.

OREGON.

Cascade.—N. F. MACDUFF, forest supervisor, Eugene (WU, P); Smith Taylor and Harvey E. Vincent, deputy forest supervisors.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P).

Klamath.—See California.

Malheur.—WM. W. CRYDER, forest supervisor, John Day (WU via Baker–Exp. via Baker).

Minam.—J. F. IRWIN, forest supervisor, Baker (WU).

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

Oregon.—T. H. SHERRARD, district forest inspector, Portland (WU, P); CARL B. NEAL, forest supervisor; J. A. Graham, deputy forest supervisor; W. J. Paeth, forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—E. H. MACDANIELS, forest supervisor, Grants Pass (WU, P); T. M. Hunt, forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P).

Umatilla.—JOHN C. KUHNS, forest supervisor, Pendleton (WU, P).

Umpqua.—W. F. RAMSDELL, forest supervisor, Roseburg (WU, P); George Bonebreak, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—I. E. JONES, forest supervisor, Baker (WU); N. L. Carey forest examiner; C. W. Waterbury, lumberman; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee); E. O. Blankenship and G. E. Mitchell, deputy forest supervisors, Chelan.

Columbia.—SHIRLEY BUCK, acting forest supervisor, Portland, Oreg. (WU, P).

Colville.—C. C. REID, forest supervisor, Republic (WU, P); Lawrence B. Pagter, forest examiner.

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee).

Olympic.—O. F. ERICKSON, forest supervisor, Olympia (WU, P); Chris Morgenroth, deputy forest supervisor; A. A. Griffin, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., forest supervisor, Seattle (WU, P); Edward J. Hanzlik, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell and Thomas Thompson, deputy forest supervisors.

Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Wenatchee (WU); F. B. Lenzie, grazing examiner.

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, ENGINEERING, } H. O. STABLER, assistant district forester; JOHN W. FOX, assistant engineer.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester; E. V. CLARK, national forest examiner.

GRAZING, LANDS, } F. W. REED, district forester; W. F. HILL, national forest examiner.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, acting forest supervisor, Moulton.

ARKANSAS.

Arkansas.—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor; R. C. Huey, national forest examiner.

Ozark.—BEN F. VAUGHAN, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, district forest inspector, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.

Nantahala.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); H. R. Currier, deputy forest supervisor; E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, district forest inspector, Asheville (WU, P); Ira T. Yarnall, forest examiner.

Nantahala (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Franklin (WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Nantahala.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens (WU, P).

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest supervisor, Johnson City (WU, P); W. E. Hedges, national forest examiner.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, district forest inspector, Harrisonburg (WU, P); Wm. H. Stoneburner, deputy forest supervisor.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest supervisor, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

LABORATORY.—Mark W. Bray, assistant chemist; Claude E. Rupp, assistant chemist in forest products; Clarence J. Humphrey, pathologist; C. Audrey Richards, assistant in forest pathology; Arthur T. Jones, laboratory helper; Fay F. E. Holum and Lillian Matson, clerks (typewriters); Mary E. Delaney, clerk (stenographer and typewriter); Grace Bewick and Clara Kepke, computing clerks.

DISTRICT 1.—Arthur E. Byers (reinstatement), Cabinet; A. Price Townsend (reinstatement), Missoula; Thomas J. Carney (reinstatement), Absaroka; J. W. Streit (reinstatement), forest rangers, Justin K. Dwinelle (reinstatement), Kootenai, fire assistant. Mary E. Harvey (transfer), Madison; Rose M. Almini, Flathead; Armilda S. Bowers, Helena, clerks (stenographers and typewriters). Pearl E. Perry, Cabinet; Esther M. Pierson, Deerlodge, clerks (typewriters). Andrew G. Bussey, messenger.

District 2.—Clarence E. Snell, Montezuma; Rayman O. Myers, Shoshone, forest clerks. Herbert J. S. Devries and Rae A. Kennedy, San Juan, clerks (stenographers and typewriters). William A. Tokola, Black Hills; Joseph Pluth, Superior, clerks (typewriters). James B. Beals, San Juan; Fred E. Maupin, Uncompahgre, forest rangers. Anna A. Mellen (reinstatement), clerk (stenographer and typewriter). Bertha Bright, clerk (typewriter). Charles D. Jackson, draftsman (copyist topographic).

District 3.—Madge P. Scott, clerk (typewriter). Leonard D. Blodgett (reinstatement), Santa Fe; Guy B. Rencher (reinstatement), Tonto; Albert Yochelson, Datil, forest rangers. Helen D. Walls, Apache; Orpha Stuart, Santa Fe, clerks (stenographers and typewriters). Martha H. Edgington, Lincoln, clerk (typewriter).

District 4.—Francis Moss, Targhee; Martin Murphy, Bridger, forest rangers. Myreel Potter, Fillmore; Millie Young, Kaibab, clerks (typewriters). Nina W. Cranney, Wyoming; Lewis R. Walgren (reinstatement), Uinta, forest clerks. Charles E. Fish, surveyor draftsman. Elizabeth M. Seppich, clerk (stenographer and typewriter).

District 6.—Helen Minnie Comer, Rainier, clerk (typewriter). Arthur Van Deventer, Siskiyou; Wesley A. Stockpole, Snoqualmie; Jason P. Williams (reinstatement), Tongass; Rudolph Mark Brunn, Rainier; Ralph A. Snow, Deschutes, forest rangers.

PROMOTED IN RANK.

Forester.—William B. Greeley, assistant forester to Forester; Edward A. Sherman, assistant forester to Associate Forester.

Editor.—Herbert A. Smith, editor to assistant forester.

Operation.—George G. Anderson, inspector of records to assistant in personnel.

Forest Management.—J. Girvin Peters, chief, Office of State Cooperation to forest inspector.

Acquisition.—Kenneth E. Kimball, forest ranger to national forest examiner; Rezin E. Pidgeon and Arthur A. Riemer, transitmen to examiners of surveys.

Research.—Earl H. Frothingham, forest examiner to silviculturist.

Laboratory.—Arthur T. Upson, forest supervisor to chief, section of laboratory operation; Arthur M. Cook, forest examiner to chief, section of industrial investigation; Lawrence V. Teesdale, architectural assistant to engineer in forest products.

District 1.—Joseph A. Fitzwater, C. K. McHarg, J. D. Warner, W. B. Willey, and W. W. White, forest supervisors to district forest examiners. M. H. Wolff, forest supervisor to forest examiner. A. C. Adams, Jefferson; W. W. Weber, Deerlodge, deputy forest supervisors to forest supervisors. Kenneth L. Wolfe, Flathead; C. C. Delavan, Coeur d'Alene;

L. F. Vinal, Kootenai, fire assistants to forest supervisors. W. P. Hillman, Kaniksu; Henry Wold, Coeur d'Alene, forest clerks to deputy forest supervisors. W. M. Rush, Lewis and Clark; J. E. Breen, Pend Oreille; G. W. Jones, Lolo, forest rangers to deputy forest supervisors. John H. Clack, Bitterroot, deputy forest supervisor to fire assistant. W. C. Lowdermilk, forest ranger to forest examiner. R. P. McLaughlin, forest supervisor to national forest examiner.

DISTRICT 2.—Allen S. Peck, forest inspector to district forester. John B. Cammann, deputy forest supervisor to national forest examiner. Jesse M. Mann, grazing assistant to grazing examiner. Carlos G. Bates, forest examiner to silviculturist. Ress Philips, Bighorn; William R. Kreutzer, Gunnison; Robert E. Clark, Rio Grande; John W. Lowell, jr., Shoshone, forest supervisors to district forest inspectors. Alve L. Richey, Arapaho, deputy forest supervisor to forest supervisor. Harold L. Borden, Leadville, forest examiner to forest supervisor. Thomas H. Gill, Black Hills, forest ranger to deputy forest supervisor.

DISTRICT 3.—Frank C. W. Pooler, assistant district forester to district forester. John D. Jones, national forest examiner to assistant district forester. Theodore T. Swift, Crook; Frank E. Andrews, Santa Fe; Joseph C. Kircher, forest supervisors to district forest inspectors. John A. Adams and Kenner C. Kartchner, Coconino; Llewellyn J. Putsch, Manzano; John C. McNelty, Prescott; Lee R. DeCamp, Santa Fe; Francis L. W. Grubb, Tusayan, deputy forest supervisors to forest supervisors. Carroll R. Dwire, Carson; Otto P. Schoenberg, Coronado; Francis Lee Kirby, Crook; Robert S. Salton and James A. Simmons, Datil; H. Norton Cope, Gila, forest rangers to deputy forest supervisors. Simeon Strickland, Lincoln, scaler to lumberman. Homer E. German, Coconino, forest ranger to scaler.

DISTRICT 4.—Miller S. Benedict, Sawtooth; Clarence E. Favre, Humboldt; Emile Grandjean, Boise; Arthur C. McCain, Teton; Guy B. Mains, Payette; John Raphael, Fillmore; Edwin C. Shepard, Cache, forest supervisors to district forest inspectors. David A. Arrivee, Wasatch; Clinton M. Mangun, Sawtooth; Frank S. Moore, Payette; Wallace M. Riddle, Dixie; Edmund B. Spencer, Cache; Lyle F. Watts, Boise, deputy forest supervisors to forest supervisors. James E. Gurr, Dixie; Lewis T. Quigley, La Sal; Elmer C. Ross, Weiser; Lemuel Steele, jr., Targhee; Robert W. Strong and Francis Wallis, Payette, forest rangers to deputy forest supervisors.

DISTRICT 5.—R. H. Charlton, Angeles; David N. Rogers, Plumas; Maurice A. Benedict, Sierra; Richard L. P. Bigelow, Tahoe, forest supervisors to district forest inspectors. Thos. W. Sloan, Santa Barbara; Edwin F. Smith, Eldorado; Thos. J. Jones, Inyo, deputy forest supervisors to forest supervisors. S. A. Nash-Boulden, Cleveland, forest ranger to forest supervisor. James B. Stephenson, Cleveland; Henry A. Kloppenburg, Plumas; Lee Slinkard, Sequoia; John T. Gray, Trinity,

forest rangers to deputy forest supervisors. Robert J. Settles, California, clerk to deputy forest supervisor. Albert E. Wieslander, Lassen, forest assistant to forest examiner. Fred P. Cronemiller, jr., Modoc, grazing assistant to grazing examiner. Rollin A. Fairchild, Inyo, clerk to forest clerk. E. I. Kotok, forest supervisor to forest examiner. Paul P. Pitchlynn and Chester E. Jordan, forest supervisors to national forest examiners.

DISTRICT 6.—Wellman Holbrook, forest ranger to national forest examiner. Elmer R. Johnson, draftsman to surveyor. Charles Ward Boyce, forest assistant to forest examiner. Rudo L. Fromme, Fred H. Brundage, Thomas H. Sherrard, William G. Weigle, Robie M. Evans, forest supervisors to district forest inspectors. John F. Irwin, Thomas M. Hunt, Ira E. Jones, Charles T. Gardner, deputy forest supervisors to forest supervisors. Carl B. Neal, fire assistant to forest supervisor. George H. Peterson, Thomas Thompson, William J. McDonald, Joe A. Graham, Joseph L. MacKechnie, forest rangers to deputy forest supervisors. Louis King, clerk to fiscal agent. Oliver F. Erickson and Willett F. Ramsdell, forest examiners to forest supervisors. Roland L. Cline, forest planting assistant to national forest examiner. George E. Griffith, forest clerk to deputy forest supervisor.

DISTRICT 7.—Loren L. Bishop, Florida; Seward H. Marsh, Shenandoah; Verne Rhoades, Pisgah, forest supervisors to district forest inspectors. Henry L. Johnson, Monongahela, forest examiner to forest supervisor. Horace R. Currier, White Mountain, forest ranger to deputy forest supervisor. Wm. D. Jones and Thomas F. Hale, Arkansas, assistant forest rangers to forest rangers.

CHANGE IN DESIGNATION.

RESEARCH.—Austin F. Hawes, extension specialist in forestry to forest economist.

DISTRICT 1.—E. A. Anderson, Flathead, deputy forest supervisor to fire assistant. W. G. Wahlenberg, Custer, forest assistant to forest ranger. Le Vaughn Beaman, Blackfeet, clerk to forest ranger.

DISTRICT 2.—Simeon D. Anderson, Gunnison; Lee P. Brown, Leadville; Earle D. Bailey, Pike, forest assistants to forest rangers.

DISTRICT 3.—Edward P. Ancona and Hugh G. Calkins, forest supervisors to forest examiners. James F. Mullen, forest supervisor to national forest examiner. Robert Thompson, Coronado, deputy forest superivsor to forest ranger.

DISTRICT 5.—Arthur T. Shay, Angeles, forest guard to forest ranger.

DISTRICT 6.—John D. Guthrie, forest supervisor to forest examiner. William O. Harriman and J. Fred McClain, deputy forest supervisors to forest rangers.

RESIGNED.

FORESTER.—Henry S. Graves, Forester; Albert F. Potter, Associate Forester.

OPERATION.—Daniel D. Bronson, general inspector.

FOREST MANAGEMENT.—Edward S. Bryant, forest inspector.

LABORATORY.—Jenness B. Frear, engineer in forest products; Chas. B. Norris, assistant engineer in forest products; Carl F. Bull, mechanical draftsman; Mrs. Marie L. Smith, laboratory helper; Otto R. Stadelmann, computing clerk; Hazel Gray, messenger.

DISTRICT 1.—R. E. Bodley, Gallatin, forest supervisor. W. P. Hillman, Kaniksu, deputy forest supervisor. R. G. Merritt, Blackfeet; W. C. Latane, Deerlodge; W. M. Nagel and V. C. Sheffield, forest examiners. C. B. Baker, Kootenai, fire assistant. D. H. Clark, grazing assistant. E. C. Durgan, Absaroka; Ira N. Goss and O. B. Parker, Beartooth; D. B. Randolph and Sanford Shepherd, Beaverhead; A. R. Truman, Blackfeet; G. J. Gordon and W. M. Stoltz, Cabinet; W. J. McCarthy, Jefferson; F. W. Horrigan and E. I. Shaw, Missoula; G. M. Van Dyk, Pend Oreille; T. E. Norton and T. O. Paine, Custer; W. R. Schofield, forest rangers. Aleathea B. Howard, Madison; Agnes I. Mevig, Coeur d'Alene, forest clerks.

DISTRICT 2.—Albert L. Sweitzer, Rio Grande, forest supervisor. Charles L. Cecil, Black Hills, deputy forest supervisor. Adaline T. Morgan, Arapaho, clerk (stenographer). Harry J. King, Arapaho; Anthony C. Clements and Walter Osborn, Black Hills; Thomas H. Thurman, Gunnison; Frank Gray, Montezuma; Karl L. Janouch, Nebraska; Floyd E. Runyan, San Juan; Walter A. Wagner, Uncompahgre, forest rangers. Charles B. Gosorn, draftsman. Gertrude L. Kimmel, clerk.

DISTRICT 3.—Nelson F. Newman, surveyor. Helen D. Mahoney and Berenice M. Palmer, clerks (typewriters). Edna R. Hyre, clerk (stenographer). James H. Billingslea, jr., and David Scott Marks, Apache; Oscar F. Schaefer, Coconino; Ferry D. Lewis and Robert H. Zeiger, Datil; John H. Isbester, Gila; Barnard A. Hendricks and Edward A. Lamirand, Lincoln; Ray E. King and Fred H. Miller, Manzano; Walter Glen and Charles E. Moore, Santa Fe; Roy Cummins, Sitgreaves, forest rangers. Clyde E. Thomson, Coconino, scaler. Emanuel Fritz, Fort Valley, forest assistant. Virginia C. Bamber, Prescott, clerk (typewriter). Maude E. Wilson, Fort Valley, forest clerk.

DISTRICT 4.—Jacob B. Lafferty, Weiser, forest supervisor. John B. Barr, Weiser; Joshua A. Brower, Targhee; Samuel A. Buchanan, Minidoka; Louis R. Hillmon, Weiser; Roy Lee, Fishlake; Vernon O. Maw, Ashley; Ralph A. Taylor, La Sal; Earl Templeton, Humboldt; Hans A. Wickman, Manti, forest rangers. Zilla N. Sheperd, Weiser; Mae E. Williams, clerks (stenographers and typewriters).

DISTRICT 5.—Wm. E. Harris and Norman H. Sloane, Shasta, forest supervisors. Benjamin J. Hoffner, Sequoia; Albert W. Blair and John

Wesley Sitler, Shasta; Edwyn H. Markel, Tahoe; Frank W. Harley, Klamath; George M. Sadler, Trinity, forest rangers. Harvey J. Montgomery, Shasta, lumberman. Rose Hughes Leech, Angeles; Zitella Smith, Shasta, clerks (stenographers and typewriters). Mrs. Lura Spencer Gyllstrom, Cleveland; Ernest L. Herzinger, Inyo; Constantin L. Rixon, Santa Barbara, forest clerks. Frank Haynie, national forest inspector. Percy L. Day and David P. Godwin, national forest examiners. Fred D. Douthitt, grazing examiner. Don C. McLain, draftsman. May Wise, clerk (stenographer and typewriter).

DISTRICT 6.—Clyde A. Nettleton, Chugach; Harry N. Colter, Columbia; James Douglas Johnson, Deschutes; Ed. Tittle, Rainier; Richard Helm, Siskiyou; Walter G. Hellan, Tongass; Robert I. Peachey, Whitman; Oscar Pratt, Wallowa; Adolph Nilsson, forest rangers. Reginald A. Bradley and Daniel F. Brennan, Fremont, deputy forest supervisors. Cyrus J. Bingham, Malheur; Smith C. Bartrum, Umpqua, forest supervisors. Gerald H. Wenner, Ochoco; Abbott C. Read, Siuslaw, forest clerks. Francis S. Fuller, Olympic, forest assistant. Francis L. Downes, Santiam, clerk (stenographer and typewriter). Josiah M. Wyckoff, Tongass, clerk.

DISTRICT 7.—Andrew J. James, Arkansas, scaler. J. Grady Siler, jr., Savannah; Henry R. Keon, Ozark; M. F. Bohan, Wichita, forest rangers. Cecil V. Rummel and Eugenia W. Smith, Arkansas; Thomas E. Huffman, Natural Bridge, clerks. David A. Younger, Arkansas, unskilled laborer.

DISMISSED.

DISTRICT 1.—Mrs. E. A. Higgins, Cabinet, clerk.

With deep regret announcement is made of the death of Warren M. Cooper, forest ranger, Oregon, February 19; Chauncey E. Bullen, forest ranger, Snoqualmie, February 27; Madeline N. Oakey, proofreader, laboratory, November 10; John W. Stratton, carpenter, laboratory, December 3; Marie A. Schach, draftsman, district 3, January 5.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 845.—Production of Lumber, Lath, and Shingles in 1918.

Department Circular 148.—How Lumber is Graded.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1920

RECEIVED
MAY 14 1920
Division of Forestry
University of California

No. 22. Issued July 15, 1920.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE,
WILLIAM B. GREELEY, Forester.

July Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

WILLIAM B. GREELEY, Forester.

EDWARD A. SHERMAN, Associate Forester.

FINANCE AND ACCOUNTS.

M. E. FAGAN, chief of office.
BOOKKEEPING.—H. B. HERMS, in charge.
TRANSPORTATION.—M. BALDENBURG, in charge.
APPOINTMENT RECORDS.—BLANCH A. JUDSON, in charge.

OPERATION.

ROY HEADLEY, assistant forester in charge; PAUL D. KELLETER, general assistant; G. C. ANDERSON, assistant in personnel; B. I. SHANNON, executive assistant; EVAN W. KELLEY, inspector.

MAINTENANCE.—G. M. RANDAL.

SUPPLY DEPOT.—S. L. MCLAURIN, property clerk.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, purchasing agent.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

FOREST MANAGEMENT.

E. E. CARTER, assistant forester in charge; HARRY IRION, office assistant.

WESTERN DIVISION.—J. F. PRESTON, forest inspector in charge; C. G. SMITH, forest inspector.

EASTERN DIVISION.—J. G. PETERS, forest inspector, acting in charge; L. S. MURPHY, C. R. TILLOTSON, and J. A. MITCHELL, forest examiners.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, logging engineer.

COMPILATION OF STATE FOREST LAWS.—Miss J. S. PEYTON.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. PETERS, in charge; L. S. MURPHY and J. A. MITCHELL.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; J. H. Foster, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; M. C. Hutchins, State fire warden, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; G. H. Wirt, chief forest fire warden, Harrisburg, Pa.; F. W. Besley, State forester, Baltimore, Md.; A. B. Hastings, assistant State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; ———, State forester, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Lansing, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

GRAZING.

WILL C. BARNES, assistant forester in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—WILLIAM R. CHAPLINE, inspector of graz-

ing, in charge; Clarence L. Forsling, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Enoch W. Nelson, grazing examiner in charge, Las Cruces, N. Mex.; Jack E. Marlowe, grazing assistant. Santa Rita Reserve: R. R. Hill, grazing examiner in charge, Tucson, Ariz.

LANDS.

L. F. KNEIPP, assistant forester in charge.

OCCUPANCY.—C. H. SQUIRE, inspector of lands.

CLASSIFICATION.—W. J. MANGAN, executive assistant.

ACQUISITION.—W. W. ASHE, forest inspector.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA, forest economist and assistant chief; RAPHAEL ZON, forest economist; HARRY IRION, office assistant.

DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.

FOREST INVESTIGATION.—J. KITTREDGE, Jr., acting in charge.

Studies.—E. H. Frothingham, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, and W. R. Mattoon.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B LEECH.

Experiment Stations:

CLOQUET, in cooperation with the University of Minnesota.—W. H. KENETY, Cloquet, Minn.

PRIEST RIVER, KANIKSU NATIONAL FOREST.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

FREMONT, PIKE NATIONAL FOREST.—C. G. BATES, silviculturist in charge, Box 1068, Colorado Springs, Colo.

WAGON WHEEL GAP, RIO GRANDE NATIONAL FOREST.—EDWIN H. JONES, Wagon Wheel Gap, Colo.

FORT VALLEY COCONINO NATIONAL FOREST.—G. A. PEARSON, silviculturist in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

———.—C. F. KORSTIAN, forest examiner, Ogden, Utah.

———.—E. N. MUNNS, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—JULIUS V. HOFMANN, forest examiner in charge, Stabler (railroad point, Carson), Wash.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; C. V. Mauldin, assistant engineer in forest products.

Publication of Results.—C. R. Thomas, in charge; Ray C. Tuttle, J. G. Woodburn.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge.

Distillation and Naval Stores.—L. F. Hawley, Howard N. Calderwood.

Wood Preservatives.—Ernest Bateman, George G. Town.

Ethyl Alcohol.—E. C. Sherrard, G. W. Blanco.

Cellulose Chemistry.—Samuel A. Mahood, D. E. Cable.

PULP AND PAPER.—OTTO KRESS, in charge.

Manufacture of Pulp and Paper.—Sidney D. Wells, C. L. Bachelder, M. W. Bray, Jos. A. Staidl.

Utilization of By-Products.—V. P. Edwardes, C. E. Rupp.

Pulp and Pulpwood Decay.—C. J. Humphrey, Miss C. Audrey Richards.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, assistant in charge; T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), John M. Gahagan.

Comparison of Species.—L. J. Markwardt, R. F. Luxford.

Effect of Treatment on Strength.—T. R. C. Wilson, R. P. A. Johnson.

Fabricated Articles.—G. E. Heck.

Plywood Strength.—L. J. Markwardt, H. S. Grenoble, James R. McAteer.

Structural Timbers.—J. A. Newlin.

Aircraft Study.—J. A. Newlin, G. W. Trayer.

Container Investigations.—A. K. Armstrong, J. R. Watkins, C. A. Plaskett, H. L. Drake, P. M. Paine.

TIMBER PHYSICS.—ROLF THELEN, in charge.

Kiln Drying.—Rolf Thelen, D. R. Brewster, J. D. Studley, W. K. Loughborough, A. Hermann.

Wood technology.—A. Koehler, Miss Eloise Gerry, Miss Gertrude Griffin, M. C. Jensen.

WOOD PRESERVATION.—GEORGE M. HUNT, in charge; A. L. Heim, assistant.

Laminated Wood Studies.—A. C. Knauss, Carl A. Menzel, R. M. Wirka.

Glues and Plywood.—Matthew E. Dunlap, T. R. Traux, W. L. Jones, Alfred C. Lindauer, Frederick L. Browne, C. A. Harrison.

Preservation.—P. R. Hicks, J. D. MacLean.

INDUSTRIAL INVESTIGATIONS.— ———, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—P. V. SIGGERS, acting in charge; E. E. Hubert.

LABORATORY OPERATION.—ARTHUR UPSON, in charge; Charles P. Juckem, executive clerk.

Engineering.—B. L. Nelson.

Photography.—M. E. Diemer.
Computing.—Kenneth Scott.
Library.—Miss S. D. Kinney.
Quarters.—L. R. Denicke.

ACCOUNTS AND SUPPLIES.—O. M. WOLD, fiscal agent, in charge; W. E. Thompson, purchasing agent.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, R. K. Helphenstine, jr., J. S. Mathewson. E, F. McCarthy, collaborator.

ECONOMIC INVESTIGATIONS.— ———, in charge; A. F. HAWES; R. V. REYNOLDS; STANLEY L. WOLFE; A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.

ENGINEERING.

T. W. NORCROSS, acting chief engineer.

ROADS.—T. W. NORCROSS, in charge.

WATER POWER.—RALPH R. RANDELL, assistant engineer in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.
Drafting.—J. M. WITHEROW.
Engraving.—T. S. BROCK.
Photography.—E. S. SHIPP.

PUBLIC RELATIONS.

HERBERT A. SMITH, assistant forester, in charge.

INFORMATION.—JOHN L. COBBS, Jr., in charge.

PUBLICATION.—L. C. EVERARD, in charge; A. C. WATKINS, assistant editor.

PROOFS AND FORMS.—C. M. BALLARD, in charge; EDWARD BURKHOLDER.

EXHIBITS AND MOTION PICTURES.—C. A. LINDSTROM, in charge.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, district forester; R. P. MCLAUGHLIN, educational cooperation, information.

DISTRICT FOREST INSPECTORS.—C. K. MCHARG, Coeur d'Alene, Idaho; Coeur d'Alene and St. Joe. J. A. FITZWATER, Sandpoint, Idaho; Ka-

niksu and Pend Oreille. W. W. WHITE, Missoula, Mont.; Bitterroot, Lolo, and Missoula. J. D. WARNER, Kalispell, Mont.; Blackfeet and Flathead. W. B. WILLEY, Great Falls, Mont.; Jefferson and Lewis and Clark.

LAW.—Office of the Solicitor (Forest Service branch). D. F. MCGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, chief of office and fiscal agent; CHAS. A. SKEELS, district fiscal agent.

OPERATION.—LEWIS C. STOCKDALE, assistant district forester: G. I. PORTER, executive assistant.

FIRE.—ELLERS KOCH, forest examiner.

IMPROVEMENTS.—D. L. BEATTY, national forest examiner; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—ELLERS KOCH, in charge; J. C. VAN HOOK, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

MAINTENANCE.—O. C. BRADEEN, in charge.

FOREST MANAGEMENT.— ———, assistant district forester: M. H. WOLFF and H. R. FLINT, forest examiners.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ, F. J. KLOBUCHER.

TIMBER SALES.—Field Supervision, C. E. KNOUF, lumberman.

PLANTING.—Savenac Nursery, D. S. OLSON, planting assistant, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.— ———.

FOREST INVESTIGATIONS.—W. C. LOWDERMILK.

JAMES R. WEIR, consulting pathologist, 408 Columbia Building, Spokane, Wash.

GRAZING.—GLEN A. SMITH, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.— ———, assistant district forester.

CLAIMS.—P. J. O'BRIEN, examiner; F. R. INGALSBEE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—FRANK J. COOL.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); P. A. Wohlen, fire assistant.

Coeur d'Alene.—C. C. DELAVAN, forest supervisor, Coeur d'Alene (WU); Henry Wold, deputy forest supervisor; Philip Neff, lumberman; James F. Brooks, national forest examiner.

Kaniksu.—J. E. RYAN, forest supervisor, Sandpoint (WU); C. R. Clark, forest examiner; Frank Foltz, fire assistant.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); C. P. Fickes, deputy forest supervisor; R. N. Cunningham, fire assistant.

Pend Oreille.—L. G. HORNBY, forest supervisor, Sandpoint (WU); J. E. Breen, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—F. J. JEFFERSON, forest supervisor, Kooskia (WU); A. J. Devan and F. T. Carroll, fire assistants.

St. Joe.—W. W. WEBER, forest supervisor, Coeur d'Alene (WU); A. J. Roche, fire assistant.

MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, deputy forest supervisor.

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU); W. L. Lay, deputy forest supervisor; E. W. Hartwell, forest examiner.

Beaverhead.—J. B. SOMERS, forest supervisor, Dillon (WU); A. O. Benson, deputy forest supervisor.

Bitterroot.—MALLORY N. STICKNEY, forest supervisor, Missoula (WU, P, C); J. H. Clack, fire assistant.

Blackfeet.—ELDON H. MYRICK, forest supervisor, Kalispell (WU).

Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman; F. E. Brown, fire assistant.

Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU, C); J. W. Stanton, deputy forest supervisor.

Deerlodge.—FAY G. CLARK, forest supervisor, Butte (WU, P, C); T. A. Clapp and W. L. Baldwin, deputy forest supervistors; J. C. Ketridge, forest examiner.

Flathead.—KENNETH WOLFE, forest supervisor, Kalispell (WU); C. S. Webb and A. L. Rossman, lumbermen; C. H. Hash and H. L. Redlingshafer, fire assistants.

Gallatin.—BURR W. CLARK, forest supervisor, Bozeman (WU, C); J. B. Taylor, forest examiner.

Helena.—ARTHUR H. ABBOTT, forest supervisor, Helena (WU, P).

Jefferson.—A. C. ADAMS, forest supervisor, Great Falls (WU, P, C); J. C. DeCamp, deputy forest supervisor.

Kootenai.—LESLIE F. VINAL, forest supervisor, Libby (WU); C. E. Sutton, forest examiner; J. K. Dwinelle, fire assistant.

Lewis and Clark.—EDWARD J. YEOMANS, forest supervisor, Great Falls (WU, P, C); W. M. Rush, deputy forest supervisor.

Lolo.—A. M. BAUM, forest supervisor, Missoula (WU, P, C); T. P. Malloy, forest examiner; A. B. Hodgins, lumberman; R. A. Phillips, fire assistant.

Madison.—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.

Missoula.—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P, C); Lee Stratton, deputy forest supervisor.

WASHINGTON.

Kaniksu.—See Idaho.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

ALLEN S. PECK, district forester. Public Relations: W. I. HUTCHINSON in charge.

LAW.—Office of the Solicitor (Forest Service branch). JAMES F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, chief of office and fiscal agent; JOEL I. BUCKNER, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN McLAREN, fire protection; H. R. KYLIE, telephone engineer and improvements; PETER KEPLINGER, educational training.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—JOHN McLAREN, in charge; THEO. SHOEMAKER, State forester, Custer, S. Dak., collaborator.

MAINTENANCE.—C. A. NEEPER.

FOREST MANAGEMENT.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; J. A. DONERY, lumberman.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. PEARCE, forest examiner.

PLANTING.—FRED R. JOHNSON.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing in charge; JESSE M. MANN, grazing assistant.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.—J. BURGESS.

Drafting.—H. E. SEALING.

Entry Surveys.— ———.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE.

WATER POWER.—FRED D. MENDENHALL.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ALVE L. RICHEY, forest supervisor, Hot Sulphur Springs (WU).

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU); M. J. Sweeney, forest examiner.

Durango.—H. EARL FRENCH, forest supervisor, Durango (WU).

Gunnison.—WILLIAM R. KREUTZER, district forest inspector, Gunnison (WU); Charles Steuart, forest examiner.

Hayden.—See Wyoming.

Holy Cross-Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); G. M. Hunter, deputy forest supervisor.

Leadville.—HAROLD L. BORDEN, forest supervisor, Leadville (WU, P).

Montezuma.—A. F. C. HOFFMAN, forest supervisor, Mancos (WU); Robert H. Easterbrooks, forest examiner.

Pike.—RESS PHILIPS, district forest inspector, Denver (WU, P); Wm. R. Fraser, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—R. E. CLARK, district forest inspector, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

Routt.—RAY PECK, forest supervisor, Steamboat Springs (WU).

San Isabel.—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

San Juan.—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

Uncompahgre.—DWIGHT S. JEFFERS, forest supervisor, Delta (WU).

White River.—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

MICHIGAN.

Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Thos. H. Gill, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); John V. Leighou, forest examiner.

WYOMING.

Bighorn.—E. W. TINKER, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, district forest inspector, Laramie (WU, P).

Shoshone.—ANDREW HUTTON, deputy forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester; EDWARD P. ANCONA, forest examiner, educational cooperation and game protection.

DISTRICT FOREST INSPECTORS.—JOSEPH C. KIRCHER, T. T. SWIFT, Safford, Ariz.; Crook. FRANK E. ANDREWS, Santa Fe, N. Mex.; Santa Fe.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, chief of office and fiscal agent; S. H. BUSCH, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; JAMES F. MULLEN, national forest examiner, assistant chief; L. V. SLONAKER, telephone engineer.

MAINTENANCE.—H. B. HAMMOND.

FOREST MANAGEMENT.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANDLES, forest examiner.

INVESTIGATIONS.—MARINUS WESTVELD, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOT, grazing examiner.

RECONNAISSANCE.—C. K. COOPERRIDER, grazing examiner.

LANDS.—JOHN D. JONES, assistant district forester; M. M. CHENEY, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. E. LANDON.

Entry Surveys.—A. W. HENDRIX and L. R. MERCER, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys and Minor Road Construction: J. C. MULDER, R. L. HUGHES.

WATER POWER.—C. A. LONG, in charge.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

Coconino.—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.

Coronado.—HUGH G. CALKINS, forest supervisor, Tucson (WU); F. L. W. Grubb, deputy forest supervisor; Stanley F. Wilson, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—H. BASIL WALES, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—JAMES A. SCOTT, forest supervisor, Williams (WU, P); George W. Kimball, forest examiner.

NEW MEXICO.

Carson.—EARL W. LOVERIDGE, forest supervisor, Taos (WU); Carroll R. Dwire, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Robert C. Salton, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P); H. Norton Cope, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU); Simeon Strickland, lumberman; William J. Anderson, deputy forest supervisor.

Manzano.—WARD SHEPARD, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor; Charles H. Kissam, national forest examiner.

Santa Fe.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P); R. L. De Camp, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, acting district forester; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

LAW.—Office of the Solicitor (Forest Service branch). E. S. FRENCH, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—CHAS. D. SIMPSON, assistant district forester; CARL B. ARENTSON, forest supervisor, executive assistant; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—CHAS. D. SIMPSON, in charge; I. H. NASH, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—CLYDE M. GWIN.

FOREST MANAGEMENT.—C. B. MORSE, assistant district forester; S. S. STEWART, forest examiner.

PLANTING.—Cottonwood Nursery, N. J. FETHEROLF, planting assistant in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing.

STUDIES.— ——— grazing examiner.

LANDS.— ———, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; S. B. LOCKE, forest examiner, fish and game.

RESEARCH.—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.— ———, in charge.

Drafting.— ———, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS, R. A. BROWN, and O. W. TORGESON, assistants.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

NATIONAL FORESTS.

ARIZONA.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, district forest inspector, Boise (WU); W. M. Campbell, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU); Robert W. Strong, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P); Andrew Casner, deputy forest supervisor.

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—R. D. GARVER, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, district forest inspector, Emmett (WU); F. S. Moore and Francis Wallis, deputy forest supervisors.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, district forest inspector, Hailey (WU); C. M. Mangun, deputy forest supervisor.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—LYLE F. WATTS, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, district forest inspector, Elko (WU); Oscar W. Mink, deputy forest supervisor.

Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).

Cache.—E. C. SHEPARD, district forest inspector, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.

Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU).

Fillmore.—JOHN RAPHAEL, district forest inspector, Richfield (WU); A. M. Woodbury, deputy forest supervisor.

Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).

La Sal.—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).

Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).

Minidoka.—See Idaho.

Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).

Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU); Wallace M. Riddle, deputy forest supervisor.

Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.

Teton.—A. C. MCCAIN, district forest inspector, Jackson (WU).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU); Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, Terry Building, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

FOREST PRODUCTS.—C. L. HILL.

PUBLIC RELATIONS.—R. F. HAMMATT, assistant district forester; PAUL J. FAIR, exhibits.

DISTRICT FOREST INSPECTORS.—R. H. CHARLTON, Los Angeles, Calif.; Angeles, Cleveland, and Santa Barbara. D. N. ROGERS, Quincy, Calif; Plumas. R. L. P. BIGELOW, Nevada City, Calif.; Tahoe. M. A. BENEDICT, Northfork, Calif.; Sierra.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, chief of office and fiscal agent; P. A. TUCKER, district fiscal agent.

OPERATION.—ROBERT V. DEERING, assistant district forester.

FINANCE.—L. W. HESS, national forest inspector.

PERSONNEL AND INSPECTION.—PAUL P. PITCHLYNN, national forest examiner.

FIRE.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. HOMANS, State forester, Sacramento, Calif., collaborator.

LAW ENFORCEMENT.—C. V. BRERETON, national forest examiner.

MAINTENANCE.—E. H. SCHMIEDER, in charge.

FOREST MANAGEMENT.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—PERRY EMIGH and J. H. PRICE.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; H. G. LACHMUND, CHARLES D. MEISSNER, and WILLIS W. WAGENER, assistants; FRANK SALTZMAN, superintendent, Experiment Station.

RESEARCH.—S. B. SHOW, forest examiner in charge; DUNCAN DUNNING, forest examiner.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.— ———, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.

MAPS AND SURVEYS.—S. W. WYNNE, in charge; S. N. STONER, in charge field parties.

Drafting.—H. A. SEDELMEYER, acting.

ROADS.—F. H. FOWLER, in charge; J. C. DORT, F. D. BOWLUS.

Minor Roads, Trails, and Improvements.—S. W. WYNNE, C. E. JORDON.

WATER POWER.—F. H. FOWLER, in charge.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—SHIRLEY W. ALLEN, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.—S. A. BOULDEN, forest supervisor, San Diego (WU).

Eldorado.—E. F. SMITH, forest supervisor, Placerville (WU).

Inyo.—THOS. J. JONES, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Wieslander, forest examiner.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Plumas.—D. N. ROGERS, district forest inspector, Quincy (WU); Richard A. Colgan, jr., forest examiner; George R. Orr, lumberman.

Santa Barbara.—THOS. W. SLOAN, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU); Wm. F. Derby, deputy forest supervisor.

Shasta.—J. R. HALL, forest supervisor, Sisson (WU); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery, Roscoe Weaver, forest examiner.

Sierra.—M. A. BENEDICT, district forest inspector, Northfork (WU via Friant-Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU); J. E. Elliott, deputy forest supervisor.

Tahoe.—R. L. P. BIGELOW, district forest inspector, Nevada City (WU); Geo. W. Lyons, forest examiner.

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Minden (WU).

Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester.

PUBLIC RELATIONS.—JOHN D. GUTHRIE, in charge.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, chief of office and fiscal agent; H. J. WEIL, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK, national forest inspector.

FIRE PROTECTION.—W. B. OSBORNE, JR., forest examiner.

IMPROVEMENT.—M. L. MERRITT, forest examiner.

TELEPHONE ENGINEERING.—C. M. ALLEN, telephone engineer.

LAW ENFORCEMENT.—T. M. TALBOTT, national forest examiner.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. ELLIOTT, State forester, Salem, Oreg.; F. E. PAPE, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

FOREST MANAGEMENT.—FRED AMES, assistant district forester.

TIMBER SALES.—THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, logging engineer; GEO. L. DRAKE and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

FOREST PATHOLOGY.—JOHN S. BOYCE, consulting pathologist.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEIDMAN, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

LAND CLASSIFICATION.—A. H. WRIGHT and WELLMAN HOLBROOK (Alaska), national forest examiners.

LAND EXCHANGES.—RYLE TEED and ASHER IRELAND, national forest examiners.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

NATIONAL FORESTS.

ALASKA.

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Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); CHARLES T. GARDNER, forest supervisor, Ketchikan; B. F. Heintzleman and R. E. Kan Smith, forest examiners.

OREGON.

Cascade.—N. F. MACDUFF, forest supervisor, Eugene (WU), P); Harvey E. Vincent, deputy forest supervisor; E. H. Hall, forest examiner.

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Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P).

Klamath.—See California.

Malheur.—WM. W. CRYDER, forest supervisor, John Day (WU via Baker—Exp. via Baker).

Minam.—J. F. IRWIN, forest supervisor, Baker (WU).

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

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Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

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Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P).

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Wallowa.—NELSON J. BILLINGS, forest supervisor, Wallowa (WU); A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, district forest inspector; I. E. JONES, forest supervisor, Baker (WU); C. W. Waterbury, lumberman; Walter L. Dutton, grazing examiner.

WASHINGTON.

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Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T–Exp. via Wenatchee).

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Snoqualmie.—W. G. WEIGLE, district forest inspector; LEWIS A. TREEN, Jr., forest supervisor, Seattle (WU, P); Edward J. Hanzlik, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

Wenaha.—JOHN C. KUHNS, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Wenatchee (WU); F. B. Lenzie, grazing examiner.

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

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LOGGING ENGINEERING.—E. V. CLARK.

GRAZING.—F. W. REED, district forester.

LANDS.—F. W. REED, district forester.

ACQUISITION.—RUDOLPH DIEFFENBACH, forest inspector.

LAW.—A. H. MCCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va; Alfred S. Grigg, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.; Judson S. Bohannan, Double Springs, Ala.; John W. Van Hoy, Mena, Ark.

LAND EXCHANGE.—W. F. HILL, national forest examiner.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, acting forest supervisor, Moulton.

ARKANSAS.

Arkansas.—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor; R. C. Huey, J. A. Bateman, and H. A. Regan, national forest examiners.

Ozark.—BEN F. VAUGHAN, forest supervisor, Russellville (WU); Wm. P. Dale, national forest examiner.

FLORIDA.

Florida.—L. L. BISHOP, district forest inspector, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee.—See Tennessee.

Nantahala.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

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NORTH CAROLINA.

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OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Nantahala.—See North Carolina.

TENNESSEE.

Cherokee.—H. G. SPAHR, forest supervisor, Athens (WU, P); Carl F. Muzzey, examiner of surveys.

Unaka.—H. L. RUSSELL, forest supervisor, Johnson City (WU, P); W. E. Hedges, national forest examiner.

VIRGINIA.

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WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest supervisor, Elkins (WU, P).

Service changes are omitted from this issue owing to numerous changes and insufficient data.

With deep regret announcement is made of the death of Michael Joseph Doran, forest ranger, Tonto, April 12; Arthur L. Smith, forest ranger, Lemhi, March 27; Eric C. J. Pegel, draftsman (topographic), district 5, June 13.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 820.—Jack Pine.

Department Circular 112.—Timber Depletion and the Answer.

Unnumbered Publication.—Timber Depletion, Lumber Prices, Lumber Exports, and Concentration of Timber Ownership—Report on Senate Resolution 311.

Unnumbered Publication.—Spend your Vacation in the National Forests.

Unnumbered Publication.—Road and Recreation Map—Oregon.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1920

No. 1.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE,
WILLIAM B. GREELEY, Forester.

SERVICE DIRECTORY.

October, 1920.

This directory is issued semiannually, and is for the exclusive use of members of the Service and cooperating bureaus.

Unless otherwise indicated, the officers in charge of the individual Forests are forest supervisors, and those in charge of the individual Ranger Districts are forest rangers.

The express address of the ranger district is the same as the headquarters unless otherwise indicated.

(WU) indicates Western Union; (P) Postal; (C) Continental.

OFFICE OF THE FORESTER.

WILLIAM B. GREELEY, Forester.

EDWARD A. SHERMAN, Associate Forester.

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M. E. FAGAN, chief of office.
BOOKKEEPING.—H. B. Herms.
TRANSPORTATION.—M. Baldenburg.
APPOINTMENT RECORDS.—Blanche A. Judson.

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OPERATION.

ROY HEADLEY, assistant forester; Paul D. Kelleter, general assistant; G. G. Anderson, assistant in personnel; B. I. Shannon, executive assistant; Evan W. Kelley, inspector.

MAINTENANCE.—G. M. Randal.

SUPPLY DEPOT.—S. L. McLaurin, property clerk.

SUPPLY DEPOT, OGDEN, UTAH.—J. G. Falck, purchasing agent.

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WESTERN DIVISION.—J. F. Preston, forest inspector; C. G. Smith, forest inspector.

EASTERN DIVISION.—J. G. Peters, forest inspector, acting; L. S. Murphy, C. R. Tillotson, and J. A. Mitchell, forest examiners.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. Cary, logging engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. Peters; L. S. Murphy and J. A. Mitchell.

Compilation of State Forestry Laws.—Miss J. S. Peyton.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; J. H. Foster, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; M. C. Hutchins, State fire warden, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; G. H. Wirt, chief forest fire warden, Harrisburg, Pa.; F. W. Besley, State forester, Baltimore, Md.; A. B. Hastings, assistant State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; John Baird, game, fish, and forest fire warden, Lansing, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

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OCCUPANCY.—C. H. Squire, inspector of lands.
CLASSIFICATION.—W. J. Mangan, executive assistant.
ACQUISITION.—W. W. Ashe, forest inspector.

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DENDROLOGY.—George B. Sudworth, dendrologist.

FOREST INVESTIGATIONS.—J. Kittredge, jr., acting.

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COMPILATION.—Miss E. B. Leech.

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FREMONT, PIKE NATIONAL FOREST.—C. G. Bates, silviculturist, Box 1068, Colorado Springs, Colo.

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———.—C. F. Korstain, forest examiner, Ogden, Utah.

———.—E. N. Munns, forest examiner, San Francisco, Calif.

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FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison Wis.).—Carlile P. Winslow, director; O. M. Butler, assistant director; H. D. Tiemann, dry-kiln specialist.

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DERIVED PRODUCTS.—L. F. Hawley.

Distillation and Naval Stores.—L. F. Hawley, Howard N. Calderwood.

Wood Preservatives.—Ernest Bateman, Carleton Henningsen.

Ethyl Acohol.—E. C. Sherrard, G. W. Blanco.

Cellulose Chemistry.— ———.

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Soda and Sulphate Processes.—Sidney D. Wells, C. L. Bachelder, Rudolph H. Grabow.

Sulphite Process.—V. P. Edwardes, Shirley C. Brayton.

Pulp and Pulpwood Decay.—C. J. Humphrey, Miss C. Audrey Richards, M. W. Bray, Jos. A. Staidl.

TIMBER MECHANICS.—J. A. Newlin; L. J. Markwardt, assistant, T. R. C. Wilson, J. S. Mathewson, John M. Gahagan.

Comparison of Species.—L. J. Markwardt, R. F. Luxford.

Effect of Treatment on Strength.—T. R. C. Wilson, R. P. A. Johnson.

Fabricated Articles.—G. E. Heck.

Plywood Strength.—J. S. Mathewson, H. S. Grenoble, James R. McAteer, H. L. Drake.

Structural Timbers.—J. A. Newlin.

Aircraft Study.—J. A. Newlin, G. W. Trayer, P. M. Paine.

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TIMBER PHYSICS.—Rolf Thelen.

Kiln Drying.—Rolf Thelen, J. D. Studley, W. K. Loughborough, A. Hermann, C. A. Menzel.

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Laminated Wood Studies.—T. R. Truax, R. M. Wirks.

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Preservation.—P. R. Hicks, T. G. Townsend, J. D. MacLean.

INDUSTRIAL INVESTIGATIONS.— ———, D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—P. V. Siggers, acting; E. E. Hubert.

LABORATORY OPERATION.—Arthur Upson; Charles P. Juckem, administrative assistant.

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Photography.—M. E. Diemer.

Computing.—Miss Regina Torney.

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ECONOMIC INVESTIGATIONS.— ———, R. V. Reynolds, A. H. Pierson, C. W. Boyce. A. B. Strough, collaborator, Albany, N. Y.

ENGINEERING.

T. W. NORCROSS, chief engineer.

ROADS.—F. E. Bonner.

WATER POWER.—T. W. Norcross.

MAPS AND SURVEYS.—F. E. Bonner, assistant engineer; C. A. Kolb, geographer.

Atlas.—G. B. Bruce.
Drafting.—J. M. Witherow.
Engraving.—T. S. Brock.
Photography.—E. S. Shipp.

PUBLIC RELATIONS.

HERBERT A. SMITH, assistant forester.
INFORMATION.—John L. Cobbs, jr.,
PUBLICATION.—L. C. Everard; A. C. Watkins, assistant editor.
PROOFS AND FORMS.—C. M. Ballard, Edward Burkholder.
EXHIBITS AND MOTION PICTURES. C. A. Lindstrom.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

FRED MORRELL, district forester.

PUBIC RELATIONS.—R. P. McLaughlin.

DISTRICT FOREST INSPECTORS.—C. K. McHarg, Coeur d'Alene, Idaho; Coeur d'Alene and St. Joe. J. A. Fitzwater, Sandpoint, Idaho; Kaniksu and Pend Oreille. W. W. White, Missoula, Mont.; Bitterroot, Lolo, and Missoula. J. D. Warner, Kalispell, Mont.; Blackfeet and Flathead. W. B. Willey, Great Falls, Mont.; Jefferson and Lewis and Clark.

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ACCOUNTS.—John A. Urbanowicz, chief of office and fiscal agent; Chas. A. Skeels, district fiscal agent.

OPERATION.—Lewis C. Stockdale, assistant district forester; G. I. Porter, executive assistant; E. F. White, forest examiner.

FIRE.—Elers Koch, forest examiner.

IMPROVEMENTS.—D. L. Beatty, national forest examiner; R. B. Adams, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—Elers Koch. J. C. Van Hook, State forester, Helena, Mont.; I. H. Nash, State land commissioner, Boise, Idaho, collaborators.

MAINTENANCE.—O. C. Bradeen.

FOREST MANAGEMENT.— ———, assistant district forester; M. H. Wolff and H. R. Flint, forest examiners.

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PLANTING.—Savenac Nursery, D. S. Olson, planting assistant, Haugan, Mont.; G. W. Jones, forest examiner; W. G. Wahlenburg, forest assistant.

PRODUCTS.—C. N. Whitney, forest examiner.

INSECT CONTROL.— ———.

FOREST INVESTIGATIONS.—J. A. Larson and W. C. Lowdermilk, forest examiners.

James R. Weir, consulting pathologist, 408 Columbia Building, Spokane, Wash.

GRAZING.—Glen A. Smith, assistant district forester; L. C. Hurtt, grazing examiner.

STUDIES.—L. C. Hurtt, grazing examiner; H. W. Elofson and R. W. Beeson, grazing assistants.

LANDS.— ———, assistant district forester.

CLAIMS.—P. J. O'Brien, law examiner; F. R. Ingalsbee, mineral examiner; C. A. McElroy, land examiner.

LAND CLASSIFICATION.—C. B. Swim.

SETTLEMENT.—R. P. Edwards.

STATUS.—J. W. Streit.

ENGINEERING.—G. H. Lautz, district engineer; F. E. Thieme, assistant district engineer.

MAPS AND SURVEYS.—J. B. Yule.

Topographic Surveys.—J. B. Yule.

Drafting.—Frank J. Cool.

Photography.—Frank J. Cool.

Entry Surveys.—F. E. Thieme.

ROADS.—G. H. Lautz, H. A. Calkins.

WATER POWER.—E. W. Kramer.

NATIONAL FORESTS.

IDAHO.

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Magee District.—E. D. Eiselstein, Coeur d'Alene.

North Fork District.—Wallace L. Belvail, Prichard.

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Priest Lake District.—James K. Ward, Coolin.

Sullivan Lake District.—Arthur E. Pauley, Ione, Wash.

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Moyie District.—W. O. Blackman, Sinclair (Exp. Snyder).

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Middle Fork District No. 1.—Charles A. McGregor, Kooskia.

Middle Fork District No. 2.— ———, Kooskia.

Fish Lake District.— ———.

Coolwater District.—S. I. McPherson, Lowell (Exp. Kooskia).

Meadow Creek District.—John F. Rice, Kooskia.

Moose Creek District.—Jack A. Parsell, Kooskia.

St. Joe.—Charles K. McHarg, district forest inspector, Coeur d'Alene (WU); Wallace W. Weber, forest supervisor; Ashley J. Roche, fire assistant; Miles R. Robbins, senior clerk.

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Avery District.—Clyde D. Blake, Avery.

Roundtop District.—Franklin Girard, Avery.

Pole Mountain District.— ———.

MONTANA.

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Main Boulder District.—Harry S. Kaufman, Contact (Exp. Livingston).

West Boulder District.—Seldon C. Alexander, Livingston.

Yellowstone District.—Harold B. Yerkes, Carbella (Exp. Livingston).

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Steele Creek District.—Charles A. Kutzleb, Wisdom (Exp. Divide).

Jackson District.—John A. Ogden, Jackson (Exp. Dillon).

Argenta District.—Sylvester P. Meade, Argenta (Exp. Dillon).

Horse Prairie District.—August A. Schroeder, Grant (Exp. Armstead).

Sheep Creek District.—Charles E. Brackett, Dell.

Battlefield District.—Marshall G. Ramsey, Wisdom (Exp. Divide).

Wise River District.—Phillip A. Clack, Wise River (Exp. Divide); Pete Piazzola, forest ranger.

Bitterroot.—Wilfred W. White, district forest inspector, Missoula (WU, P, C); Mallory N. Stickney, forest supervisor; William M Nagel, forest examiner; John H. Clack, fire assistant; Ethel M. Wilson, senior clerk.

Stevensville District.—Donald B. McGregor, Stevensville.

Corvallis District.—Winthrope H. Young, Corvallis.

Weeping Child District.—William See, Hamilton.

Darby District.—Nathaniel E. Wilkerson, Darby.

Ross Hole District.—Clyde W. Shockley, Sula (Exp. Darby).

West Fork District.—Curtis Matteson, Darby.

Salmon Mountain District.—James D. Vance, Darby.

Bear Creek District.—Thomas J. Donica, Darby.

Elk Summit District.—William J. Bell, Hamilton.

Blackfeet.—John D. Warner, district forest inspector, Kalispell (WU); Eldon H. Myrick, forest supervisor; Remington Ellis, forest assistant; Elarion M. J. Morand, senior clerk.

Upper North Fork District.—George R. Steppler, Columbia Falls.

Lower North Fork District.—Charles H. Lawrence, Columbia Falls.

Olney District.—John M. Brocken, Olney (Exp. Stryker).

Fortine District.—LeVaughn Beaman, Trego (Exp. Fortine).

Tally Lake District.—Paul F. Redlingshafer, Whitefish.

Cabinet.—Harry L. Baker, Thompson Falls (WU); Howard Drake, lumberman; Fred E. Brown, fire assistant; Joseph W. Jahn, senior clerk.

Thompson River District.—Harry F. Ransom, Marion.

Thompson Plains District.—James L. Adams, Thompson Falls.

Trout Creek District.—Howard R. Larsen, Trout Creek.

Noxon-Bull River District.—Benjamin F. Saint, Noxon.

Custer.—James C. Whitham, Miles City (WU, C); James W. Stanton, deputy forest supervisor; Elsie M. Ruppert, senior clerk.

Ekalaka District.—Jacob O. Thompson, Ekalaka (Exp. Miles City).

Long Pine District.—James N. Templer, Camp Crook, S. Dak. (Exp. Miles City).

Short Pine District.—L. W. Shevling, cooperative guard, Harding, S. Dak. (Exp. Miles City).

Slim Buttes District.—Glenn Flathers, Gill, S. Dak. (Exp. Miles City).

Cave Hills District.—Otto E. York, Cox, S. Dak. (Exp. Miles City).

Whitetail District.—Minor G. Harvey, Stacey (Exp. Miles City).

Twenty Mile District.—Warren Akers, Otter (Exp. Miles City).

Fort Howes District.—Robert B. Rolfe, Otter (Exp. Miles City).

Poker Jim District.—Glen L. Dodge, Otter (Exp. Miles City).

Deerlodge.—Fay G. Clark, Butte (WU, P, C); William L. Baldwin and Thomas A. Clapp, deputy forest supervisors; John C. Ketridge, forest examiner; Olive Leaf, senior clerk.

Deer Lodge District.—Lorenzo D. Williamson, Deer Lodge.

Race Track District.—Murray E. Skillman, Deer Lodge (Exp. Anaconda).

Warm Springs District.—Edward W. Kurtz, Anaconda.

Big Hole District.—Ashley W. Kurtz, Fishtrap (Exp. Anaconda).

German Gulch District.—Albert E. Cole, Gregson.

Fleecer District.—William F. Simons, Silver Bow.

Butte District.—Charles M. Hubbard, Butte.

Pipestone District.—Isador Kiermeyer, Grace.

Whitetail District.—George Grigg, Whitehall.

Boulder District.—Harvey H. Mills, Basin.

Flathead.—John D. Warner, district forest inspector, Kalispell (WU); Kenneth Wolfe, forest supervisor; Clyde S. Webb and Alfred L. Rossman, lumbermen; Charles J. Hash and Harold L. Redlingshafer, fire assistants; Elizabeth P. Dill, senior clerk.

Essex District.—Irving R. Jensen, Essex.

Coram District.—James E. Ready, Coram.

Echo District.—John E. Thompson, Creston (Exp. Kalispell).

Spotted Bear District.—Henry Thol, Coram.

Big River District.—James E. Adams, Essex.

Lower South Fork District.—Ansley E. Hutchinson, Coram.

Lower Swan District.—A. J. Halvorson, Swan Lake (Exp. Kalispell).

Upper Swan District.—E. H. Billsborough, Swan Lake (Exp. Kalispell).

Upper South Fork District—Ray I. Trueman, Coram.

Gallatin.—Burr W. Clark, Bozeman (WU, C); John B. Taylor, forest examiner; Edward J. Hoel, senior clerk.

Upper Gallatin District.—Joseph E. Callahan, Eldridge (Exp. Salesville).

Lower Gallatin District.—W. A. Chipperfield, Salesville.

Middle Creek District.—Albert H. Nee, Bozeman.

Yellowstone District.—Lester H. McLean, Emigrant.

Bridger District.—Edward F. Foreman, Bozeman.

Flathead District.—Fred E. Ainger, Wilsall.

Helena.—Arthur H. Abbott, Helena (WU, P); Wellington I. White, forest assistant; Gladys I. Jackson, senior clerk.

Deep Creek District.—Earl V. Welton, Townsend.

Duck Creek District.—Bertram A. Goodman, Canton (Exp. Townsend).

Benton Gulch District.—Ray M. Kingsley, Watson (Exp. Townsend).

Checkerboard District.—Eustice A. Woods, Nelson (Exp. Helena).

McClellan District.—C. F. Martineau, Clancy.

Glendale District.—Charles Larson, Radersburg (Exp. Toston).

Moose Creek District.—David H. Lewis, Helena.

Blackfeet District.—M. D. Mizner, Elliston.

Jefferson.—Wilford B. Willey, district forest inspector, Great Falls (WU, P. C); Adrian C. Adams, forest supervisor; Adolph Weholt, deputy forest supervisor; Joanna M. Granger, senior clerk.

Tenderfoot District.—A. L. Giddings, Monarch.

Belt Creek District.—S. C. Sanderson, Neihart.

Dry Wolf District.—Ralph E. Dickinson, Stanford.

Judith River District.—Thomas G. Myers, Utica (Exp. Hobson).

East End and West Snowies District.—David Lake, Judith Gap.

Jefferson—Continued.

Musselshell District.—John P. Bonham, Martinsdale.

Sheep Creek District.—Emery E. Wilson, Barzee (Exp. White Sulphur Springs).

Castle Mountains District.—A. R. Sanders, White Sulphur Springs.

Snowy Mountains East District.—Leon L. Lake, Heath.

Highwood Mountains District.— ———.

Little Rockies District.—A. W. Armstrong, Zortman (Exp. Dodson).

Kootenai.—Leslie F. Vinal, Libby (WU); Claud E. Sutton, forest examiner; Justin K. Dwinelle, fire assistant; Ralph A. Fletcher, forest assistant; Adelaide Erdman, senior clerk.

Upper Yaak District.—John P. Baldwin, Troy.

Lower Yaak District.—John D. Brooks, Troy.

Cabinet District.—William E. Lockhart, Troy.

Libby District.—Perry R. Rogers, Libby.

Swamp Creek District.—Howard McGill, Libby.

Pleasant Valley District.—Alvin E. Beckwith, Manicke (Exp. Libby).

Warland District.—Leland E. Tripp, Warland.

Rexford District.—Peter H. Dierman, Rexford.

Pipe Creek District.—Frank H. Pillsbury, Libby.

Lewis and Clark.—Wilford B. Willey, district forest inspector, Great Falls (WU, P, C); Edward J. Yeomans, forest supervisor; William M. Rush, deputy forest supervisor; Thelma Tomlinson, senior clerk.

Lubec District.—Eugene J. Rogers, Glacier Park.

Teton District.—Sylver J. White, Choteau.

Sun River District.—Athur F. Bateman, Gilman.

Willow Creek District.—Harry H. Halvorson, Gilman.

Dearborn District.—Francis S. Garl, Augusta.

Lolo.—Wilfred W. White, district forest inspector, Missoula (WU, P, C); Arthur M. Baum, forest supervisor; Thomas P. Maloy, forest examiner; Roy A. Phillips, fire assistant; Louise F. Anderson, senior clerk.

Lolo District.—Edward Mackay, Lolo.

Frenchtown District.—A. T. Macnab, Frenchtown.

Quartz District.—George H. Hankinson, Tarkio (Exp. Rivulet).

Superior District.—H. R. Richards, Superior.

St. Regis and Savenac Districts.—Frank D. Haun, Haugan.

Madison.—Walter J. Derrick, Sheridan (WU); Harry G. Ade, deputy forest supervisor; Helen C. Schmittrth, senior clerk.

Sheridan District.—Claget Sanders, Sheridan.

Pony District.—Harvey B. Rust, Pony.

Bear Creek District.—Homer C. Bosworth, Cameron (Exp. Norris).

Basin District.—William A. Schowe, West Yellowstone.

Madison—Continued.

Lyon District.—Arthur T. Smith, Lyon (Exp. Morris).

Ruby District.—Ben P. Martin, Alder.

Wall Creek District.—Frank D. Riggle, Abe (Exp. Norris).

Missoula.—Wilfred W. White, district forest inspector, Missoula (WU, P, C); Lee Straton, deputy forest supervisor; Rutledge Parker, forest examiner.

Philipsburg Districts No. 1 and No. 2.—A. Price Townsend, deputy forest supervisor, Philipsburg; L. F. Jefferson, forest ranger.

Bonita District.—Lewis G. Nichols, Bonita.

Seely Lake District.—August J. Riggert, Seely Lake (Exp. Missoula).

Monture District.—LeBaron M. Beard, Ovando (Exp. Missoula).

WASHINGTON.

Kaniksu.—See Idaho.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

ALLEN S. PECK, district forester.

PUBLIC RELATIONS.—W. I. Hutchison.

LAW.—Office of the Solicitor (Forest Service branch). James F. Lawson, assistant to the solicitor.

ACCOUNTS.—Q. R. Craft, chief of office and fiscal agent; Joel I. Buckner, district fiscal agent.

OPERATION.—C. M. Granger, assistant district forester; John McLaren, fire protection; H. R. Kylie, telephone engineer and improvements; Peter Keplinger, training.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—John McLaren; Theo. Shoemaker, State forester, Custer, S. Dak., collaborator.

MAINTENANCE.—C. A. Neeper.

FOREST MANAGEMENT.—M. W. Thompson, assistant district forester; J. A. Donery, lumberman.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. Pearce, forest examiner.

PLANTING.—Fred R. Johnson.

GRAZING.—John H. Hatton, assistant district forester; Lynn H. Douglas, inspector of grazing.

STUDIES.—Lynn H. Douglas, inspector of grazing; Jesse M. Mann, grazing assistant.

LANDS.—C. J. Stahl, assistant district forester; Thos. M. Moorman, assistant; Crosby A. Hoar, classification and exchange; J. B. Cammann, mineral examiner; Arthur H. Carhart, recreation engineer.

ENGINEERING—Fred D. Mendenhall, district engineer; J. L. Brownlee, assistant district engineer.

MAPS AND SURVEYS.—J. Burgess.

Drafting.—H. E. Sealing.

Entry Surveys.— ———.

Topographic Surveys.—J. Burgess, acting.

ROADS.—Fred D. Mendenhall; J. L. Brownlee.

WATER POWER.—Fred D. Mendenhall.

NATIONAL FORESTS.

COLORADO.

Arapaho.—Alve L. Richey, Hot Sulphur Springs (WU); L. C. Anderson, forest assistant; Victor H. Frey, senior clerk.

Williams Fork District.—J. H. Williams, jr., Scholl (Exp. Parshall).

Fraser and Byers Districts.—J. L. Glendening, Fraser.

Sulphur District.— ———, Hot Sulphur Springs.

North Park District.—J. C. McCallister, Rand (Exp. Walden).

Battlement.—John W. Spencer, Grand Junction (WU); D. C. Montgomery, senior clerk.

Grand River District.—W. F. Gilliam, Rifle.

Muddy District.—Ben G. Sucher, Paonia.

Lakes District.—J. B. Robinson, Cedaredge (Exp. Delta).

Mesa District.—D. E. Basham, Mesa (Exp. DeBeque).

Big Creek District.—E. L. Davis Collbran.

Buzzard District.—G. L. Sanders, Heiberger (Exp. DeBeque).

Cochetopa.—Fred B. Agee, Saguache (WU); Clarence E. Taylor, forest examiner; J. W. Dilley, senior clerk.

Cebolla District.—John A. Stavely, Parlin.

Saguache District.—Frank L. Trickel, Saguache (Exp. Moffat).

Carnero District.—Tibo Gallegos, Saguache (Exp. Moffat).

Bonanza District.—Winnie E. Shropshire, Villa Grove.

Poncha District.—Joseph M. Cuenin, Salida.

Tomichi District.—Jas. B. Hamilton, Sargents.

Colorado.—H. N. Wheeler, Fort Collins (WU); M. J. Sweeney, forest examiner; G. C. Hougham, senior clerk.

Boulder District.—Ray R. Clarke, Rollinsville.

Ward District.—L. H. Ulrich, Boulder.

Estes Park District.—Josephus Ryan, Estes Park.

Buckhorn District.—R. R. Willey, Masonville (Exp. Fort Collins).

Poudre District.—R. C. McConnell, Bellvue (Exp. Fort Collins).

Cherokee Park District.—J. R. Hoshour, LaPorte (Exp. Fort Collins).

North Park District.—W. H. Merriam, Cowdrey (Exp. Camp).

Durango-San Juan.—H. Earl French, Durango (WU); Charles B. Mack, deputy forest supervisor; Teresa V. Fackerell, senior clerk.

La Plata District.—James C. Maloy, Hesperus.

Hermosa District.—Lewis R. Rist, Durango.

Silverton District.—William H. Crocker, Silverton.

Animas District.—Thomas E. Price, Durango.

Pine District.—Harry D. Hauser, Bayfield (Exp. Ignacio).

Chimney District.—Frank E. Loring, Piedra (Exp. Pagosa Springs).

Piedra District.—James B. Beals, Debs (Exp. Pagosa Springs).

Pagosa District.—Paul D. Irwin, Pagosa Springs.

Treasure District.—Frank McDaniel, Pagosa Springs.

Blanco District.—Harry L. Norris, Pagosa Springs.

Navajo District.—William Worrell, jr., Bayfield (Exp. Pagosa Springs).

Gunnison.—William R. Kreutzer, district forest inspector, Gunnison (WU); Charles Steuart, forest examiner; Maude G. Bray, senior clerk.

Pitkin District.—Jesse L. Trickel, Pitkin.

Taylor Park District.—James A. Hodges, Pitkin.

Crested Butte District.—Arthur L. Mills, Crested Butte.

Anthracite District.—Edwin L. Miller, Baldwin (Exp. Gunnison).

North Fork District.—Thomas H. Thurman, Paonia.

Sapinero District.—Charles W. Taft, Sapinero.

Black Mesa District.—B. C. Heilman, Crawford (Exp. Hotchkiss).

Holy Cross.—Harry H. French, Glenwood Springs (WU); G. M. Hunter, deputy forest supervisor; Leon A. Ek, senior clerk.

Sheephorn District.—William S. Brown, Radium.

Pando Unit.—W. C. Clemmons, Pando.

Red Cliff District.—J. J. Albano, Red Cliff.

Avon District.—R. C. Prater, Avon.

Eagle District.—H. S. Dickerson, Eagle.

Cattle Creek District.—V. C. Holcomb, Basalt (Exp. Emma).

Norrie District.—W. M. Scanlan, Meredith (Exp. Emma).

Aspen District.—L. C. Shoemaker, Aspen.

Capitol Creek District.—F. H. Bailey, Snowmass.

Crystal River District.—R. M. Bradshaw, Carbondale.

Leadville.—Harold L. Borden, Leadville (WU, P); Lee P. Brown, forest assistant; Mary B. Hughes, senior clerk.

Bassam District.—James L. Frame, Buena Vista.

Cottonwood District.—Merle F. Frey, Buena Vista.

Leadville District.—Ralph Polhemus, Leadville.

Dillon District.—Edward F. Heaton, Dillon.

Blue River District.—Stanley A. Mahan, Dillon.

South Park District.—D. S. Wright, Fairplay.

Montezuma.—A. F. C. Hoffman, Mancos (WU); Robert H. Easterbrooks, forest examiner.

Mancos District.—J. Ward Emerson, Mancos.

Dolores District.—H. E. Kauffman, Dolores.

Glade District.—D. S. Thomas, Dolores.

Norwood District.—W. I. Wilson, Norwood.

Telluride District.—Rich R. Thomson, Telluride.

Rico District.—James G. Cayton, Rico.

Pike.—Ress Philips, district forest inspector, Denver (WU, P); William R. Fraser, deputy forest supervisor; Everard S. Keithley, forest examiner; Jacob Roeser, jr., forest assistant; L. T. Mahurin, senior clerk. Monument Nursery, W. H. Schrader, forest planting assistant, Monument.

Clear Creek District.—W. B. Kelso, Idaho Springs.

Jefferson District.—P. V. Woodhead, Cassels (Exp. Grant).

South Platte District.—F. C. Parret, Buffalo Creek (Exp. Pine Grove).

Lake George District.—C. A. Mack, Lake George (Exp. Divide).

Devil's Head District.—Fred Stell, Woodland Park.

Pikes Peak (N) District.—F. E. Poley, Cascade, (Exp. Colorado Springs).

Pikes Peak (S) District.—J. H. Patterson, Colorado Springs.

Rio Grande.—R. E. Clark, district forest inspector, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor; Lillie M. Grubb, senior clerk.

Pyramid District.—E. L. Bennett, Creede.

Creede District.—Roy M. Truman, Creede.

Alder District.—J. L. Nelson, South Fork.

South Fork District.—J. A. Hagerman, South Fork.

Del Norte District.—William M. Darley, Monte Vista.

Conejos District.—W. E. Jennings, Antonito.

Routt.—Ray Peck, Steamboat Springs (WU); H. D. Cochran, forest assistant; Agnes McNair, senior clerk.

Park Range District.—Percy Ray, Coalmont.

Gore District.—Charles W. Euler, Yampa.

Steamboat District.—Lewis L. Segur, Steamboat Springs.

Hahn's Peak District.—Frank H. Rose, Hahn's Peak (Exp. Steamboat Springs).

Snake River District.—William F. Cochran, Columbine (Exp. Steamboat Springs).

Bears Ears District.—Charles G. Lancaster, Hayden.

San Isabel.—Albin G. Hamel, Westcliffe (WU); S. E. Doering, deputy forest supervisor; Herman Folkman, senior clerk.

Hardscrabble District.—J. J. Lowell, Wetmore (Exp. Florence).

Greenhorn District.—Harry Friend, Rye (Exp. Pueblo).

Westcliffe District.—Paul Gilbert, Westcliffe.

San Isabel—Continued.

Salida District.—W. C. Armstrong, Salida.

San Luis District.—J. A. Sharp, Mirage (Exp. Mineral Hot Springs).

Blanca District.—Karl Gilbert, Gardner (Exp. Walsenburg).

Las Animas District.—Eugene S. Vories, La Veta.

Uncompahgre.—Dwight S. Jeffers, Delta (WU); Leslie Brownell, deputy forest supervisor; Karl G. Brown, senior clerk.

North End District.—Elmer F. Reed, Grand Junction.

Delta District.—Fred E. Maupin, Delta.

Montrose District.—Harry C. Bennett, Delta.

Horsefly District.—E. W. Hauser, Montrose.

Ouray District.—Thomas J. Watkins, Ouray.

Cimarron District.—R. Calvin Miller, Ridgway.

Lake Fork District.—William Doran, Lake City.

White River.—James A. Blair, Glenwood Springs (WU); Theodore Krueger, forest examiner; Ethelwyn Jones, senior clerk.

Sleepy Cat District.—S. E. Alderson, Marvine (Exp. Meeker).

Williams Fork District.—Bert L. Miller, Pagoda (Exp. Craig).

Bear River District.—Elmer E. Stephenson, Yampa.

Burns Hole District.—Felix E. Read, Burns (Exp. McCoy).

New Castle District.—George A. Powell, New Castle.

Miller Creek District.—Byron L. Groesbeck, Meeker.

Shoshone District.—R. W. McDonald, Glenwood Springs.

MICHIGAN.

Michigan.—Huber C. Hilton, East Tawas (WU); Edith C. Lutzke, senior clerk. Beal Nursery, East Tawas.

Tawas District.—Ralph H. Johnson, East Tawas.

Mio District.—Bennett S. Azer, Mio (Exp. Russell).

Marquette District.—C. E. Worthy, Raco.

Au Sable District.—Roy A. Wood, Oscoda.

MINNESOTA.

Minnesota.—G. E. Marshall, Cass Lake (WU); R. W. Henry, senior clerk. Cass Lake Nursery.

Cass Lake District.—Harry D. Petheram, Cass Lake.

Bena District.—M. J. Cummings, Bena.

Cutfoot Sioux District.—George Farley, Deer River (Exp. Bena).

Superior.—C. A. Dahlgren, Ely (WU); Robert G. Schreck, forest examiner; Joseph Pluth, senior clerk.

Sioux River District.—John G. Handberg, Buyck (Exp. Orr).

Big Lake District.—E. V. Everett, Ely.

Stony District.—Thos. A. Denley, Ely.

Kawishiwi District.—Frank Carney, Ely.

North Shore Division.—Charles Taylor, Grand Marais.

NEBRASKA.

Nebraska.—Jay Higgins, Halsey (WU); Ralph W. Gray, senior clerk. Morton Nursery, Joseph A. Sweeney, forest ranger, Nenzel. Bessey Nursery, Harry C. Turner, forest planting assistant, Halsey.

Niobrara Division.—John G. Lord, Nenzel.

SOUTH DAKOTA.

Black Hills.—George A. Duthie, Deadwood (WU); Thomas H. Gill, deputy forest supervisor; N. E. Peterson, lumberman; William Tokola, senior clerk.

Spearfish District.—M. C. Henderson, Savoy.

Crook Mountain District.—Frank T. Smith, Sturgis.

Hardy District.—Charles L. Webber, Star Route (Exp. Lead).

Rochford District.—Vance I. Coe, Rochford.

Merritt District.—Manford R. Hickel, Nemo.

Pactola District.—Marion J. Webber, Pactola (Exp. Nemo).

Nemo District.—Haines F. Pond, Nemo.

Bearlodge District.—William A. Robison, Aladdin.

Black Buttes District.—George A. Price, Savoy.

Harney.—James F. Conner, Custer (WU); John V. Leighou, forest examiner; Ruth Phillips, senior clerk.

Keystone District.—George S. Haynes, Keystone (Exp. Hill City).

Hill City District.—Louis Knowles, Hill City.

Bear Mountain District.—Homer R. Raver, Custer.

Custer District.—Charles H. Fox, Custer.

Pringle District.—N. E. Hibbard, Pringle.

Elk Mountain District.—Clair V. Cooke, Dewey.

Limestone District.—Guy Wickard, Newcastle.

WYOMING.

Bighorn.—E. W. Tinker, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor; F. L. Archer, senior clerk.

Porcupine District.—C. B. Morgareidge, Lovell.

Tongue District.—Hans N. Kleiber, Dayton (Exp. Ranchester).

Shell District.—Thomas Weir, Shell (Exp. Greybull).

Paintrock District.—Bly Dickson, Hyattville (Exp. Manderson).

Goose District.—Y. Z. David, Big Horn (Exp. Sheridan).

Buffalo District.—August Hettinger, Buffalo.

Tensleep District.—F. P. Legat, Tensleep (Exp. Manderson).

Hayden.—James Blackhall, Encampment (WU, P); George P. Lang, senior clerk.

Big Creek District.—Reed A. Higby, Big Creek (Exp. Encampment via Walcott).

Encampment District.— ———, Encampment (Exp. Walcott).

Hayden—Continued.

North End District.—Richard R. Riggs, Saratoga (Exp. Saratoga via Walcott).

Snake River District.—Penn L. Gooldy, Savery (Exp. Wamsutter).

Medicine Bow.—Earl S. Peirce, district forest inspector, Laramie (WU, P); K. J. Helmick, lumberman; James M. Walley, forest assistant; Louis E. Coughlin, senior clerk.

Foxpark District.—Joseph Van Ende, Foxpark.

Keystone District.—John E. Krause, Holmes (Exp. Albany).

Brush Creek District.—Milton E. Ames, Saratoga.

Bow District.—Frank E. Henry, Elk Mountain (Exp. Hanna).

Sevenmile District.—Evan J. Williams, Centennial.

Shoshone.—Andrew Hutton, Cody (WU); Ralph R. Shaw, national forest examiner; R. O. Myers, senior clerk.

Wood River District.—Don G. Fawcett, Sunshine.

Greybull District.—Merrill Snyder, Pitchfork (Exp. Cody).

Carter Mountain District.—W. J. Petermann, Ishawooa (Exp. Cody).

Canyon Creek District.—J. E. Lehman, Wapiti (Exp. Cody).

North Fork District.—C. C. Spencer, Wapiti (Exp. Cody).

Sunlight District.—M. S. Hulse, Painter (Exp. Cody).

Crandall District.—Alfred W. Mengel, Painter (Exp. Cody).

Washakie.—Arthur M. Cook, Lander (WU); Frank E. McGrew, lumberman; Charles M. Hall, senior clerk.

Absaroka District.—G. W. Goodson, Dubois.

Sheridan District.—B. R. McAdam, Dubois (Exp. Lander).

Dubois District.—Ned A. Avery, Dubois (Exp. Lander).

Lander District.—George F. Tucker, Lander.

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester.

PUBLIC RELATIONS AND GAME PROTECTION.—Edward P. Ancona.

DISTRICT FOREST INSPECTORS.—Joseph C. Kircher, T. T. Swift, Safford, Ariz.; Crook. Frank E. Andrews, Santa Fe, N. Mex.; Santa Fe. W. H. Goddard, Roosevelt, Ariz.

LAW.—Office of the solicitor (Forest Service branch). Charles S. Brothers, assistant to the solicitor.

ACCOUNTS.—Albert Morris, chief of office and fiscal agent; S. H. Busch, district fiscal agent.

OPERATION.—Aldo Leopold, assistant district forester; James F. Mullen, national forest examiner, assistant chief; L. V. Slonaker, telephone engineer.

MAINTENANCE.—H. B. Hammond.

FOREST MANAGEMENT.—R. E. Marsh, assistant district forester; D. M. Lang, lumberman; Quincy Randles, forest examiner.

INVESTIGATIONS.—Marinus Westveld, forest examiner.

W. H. Long, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—John Kerr, assistant district forester; Paul H. Roberts, inspector of grazing.

STUDIES.—M. W. Talbot, grazing examiner.

RECONNAISSANCE.—C. K. Cooperrider, grazing examiner; H. O. Cassidy, M. J. Culley, grazing assistants.

LANDS.—John D. Jones, assistant district forester; M. M. Cheney, national forest examiner. Classification: Rex King and H. D. Burrall, forest examiners.

ENGINEERING.—C. A. Long, district engineer.

MAPS AND SURVEYS.— ———.

Drafting.—F. E. Landon.

Entry Surveys.—L. R. Mercer, surveyor.

ROADS.—C. A. Long. Trail Surveys and Minor Road Construction: J. C. Mulder, R. L. Hughes.

WATER POWER.—C. A. Long.

ARIZONA.

Apache.—R. J. Selkirk, Springerville (P—Exp. Holbrook); A. W. Voigt, deputy forest supervisor; Helen Walls, senior clerk.

Alpine District.—H. H. Boyer, Alpine (Exp. Holbrook).

Baseline-Clifton District.—J. C. Nave, deputy forest supervisor, Clifton.

Blue District.—Roy Swapp, Blue (Exp. Holbrook).

Eagle District.—Peter J. Wilson, Clifton (Exp. Holbrook).

Greer District.—H. L. Haynes, Greer (Exp. Holbrook).

Nutrioso District.—David S. Marks, Nutrioso (Exp. Holbrook).

Coconino.—E. G. Miller, Flagstaff (WU, P); J. A. Adams and K. C. Kartchner, forest supervisors; J. W. Girdner, deputy forest supervisor; L. R. Lessel, national forest examiner; R. L. Rhinehart, lumberman; P. H. Harley, senior clerk.

Beaver Creek District.—Walter Hackleman, Camp Verde.

Bly District.—F. W. Croxen, Winslow.

Flagstaff District.—C. W. McKenzie, deputy forest supervisor, Flagstaff.

Long Valley District.—W. J. Brown, Camp Verde (Exp. Clarkdale).

Mormon Lake District.—Roy H. Rice, Flagstaff.

Munds Park District.—J. I. Bushnell, Cornville (Exp. Clarkdale).

Rogers Lake District.—J. E. Cook, Flagstaff.

Arizona Lumber and Timber Co. sale.—George L. Garland, scaler, camp 1, Flagstaff.

Coconino—Continued.

Flagstaff Lumber Co. sale.—R. C. Salton, deputy forest supervisor, Flagstaff.

Greenlaw Lumber Co. sale.—H. E. German, scaler, Flagstaff.

E. T. McGonigle sale.—J. J. Cummings, Flagstaff.

Walnut Canyon National Monument.—W. H. Pierce, Flagstaff.

Coronado.—H. G. Calkins, Tucson (WU); F. L. W. Grubb, forest supervisor; S. F. Wilson, forest examiner; Valerie M. Krause, senior clerk.

Santa Catalina District.—Lyle B. Smith, Oracle (Exp. Tucson).

Huachuca District.—R. A. Rodgers, Cannille (Exp. Fort Huachuca).

Paradise District.—O. P. Schoenberg, deputy forest supervisor, Rodeo.

Peloncillo District.—A. W. Pigott, Apache.

Rincon District.—G. E. Galer, Vail.

Santa Rita District.—C. B. Scholefield, Vail.

Sunset District.—A. F. McDuffie, Chiricahua (Exp. Douglas).

Tumacacori District.—Robert Thompson, Nogales.

Dragoon-Whetstone District.—Neil Erickson, Cochise.

Crook.—T. T. Swift, district forest inspector, Safford (WU); W. L. Stiles, senior clerk.

Aravaipa District.—H. E. Chipman, Klondyke (Exp. Wilcox).

Pinal District.—F. L. Kirby, deputy forest supervisor, Globe.

Queen Creek District.—H. L. Taylor, Globe.

Mount Graham District.—C. V. Christensen, deputy forest supervisor, Safford.

Mount Graham Lumber Co. sale.—S. P. Roach, scaler, Safford.

Prescott.—H. Basil Wales, Prescott (WU); J. C. McNelty, forest supervisor; Rosemary R. Campbell, senior clerk.

Bloody Basin.—W. M. Mickelson, Mayer.

Cave Creek District.—George Mutz, Cave Creek.

Cherry District.—George K. Pradt, Cherry (Exp. Cherry Creek).

Crown King District.—R. S. Taliaferro, Crown King.

Jerome District.—R. L. Linton, Jerome.

Prescott District.—M. L. Nichols, Prescott.

Skull Valley District.—H. H. Higgins, Skull Valley.

Walnut Creek District.—E. H. Oldham, Simmons (Exp. Prescott).

Sitgreaves.—T. C. Hoyt, Snowflake (P); A. G. McCloskey, senior clerk.

Chevalon District.—R. D. Rowley, Winslow.

Heber District.—L. S. Kartchner, Heber (Exp. Holbrook).

Lakeside District.—C. Shumway, Lakeside (Exp. Holbrook).

Pinedale-Park District.—D. E. Slosser, Pinedale (Exp. Holbrook).

Showlow District.—J. C. Owens, Shumway (Exp. Holbrook).

Tonto.—W. H. Goddard, district forest inspector, Roosevelt (WU); J. H. Sizer, deputy forest supervisor; Ruth Safford, senior clerk.

Mazatzal District.— ———, Roosevelt (Exp. Globe).

Payson District.—L. E. Anderson, Payson (Exp. Globe).

Pine District.—G. B. Rencher, Pine (Exp. Globe).

Pleasant Valley District.—J. A. Frieborn, Young (Exp. Globe).

Salt River District.—W. M. Sherman, Roosevelt (Exp. Globe).

Sierra Ancha District.—G. G. Curry, Spring Creek (Exp. Globe).

Tusayan.—James A. Scott, Williams (WU, P); G. W. Kimball, forest examiner; Wayne Russell, lumberman; Hans Bothe, senior clerk.

Anita-Moqui District.—J. E. Kintner, Williams.

Ash Fork District.—F. J. Cox, Ash Fork.

Chalender District.—Frank Bascom, Parks (Exp. Williams).

Spring Valley District.—Fred Haworth, Parks (Exp. Williams).

Verde District.— ———, Puntenney (Exp. Cedar Glade).

Williams District.—T. W. Rice, Williams.

Saginaw and Manistee Lumber Co. sale.—Wayne Russell, lumberman, Bellemont; G. H. Gage and V. H. Hacha, forest rangers, (scalers).

Cordwood sales.—Fred H. Miller, Cedar Glade.

NEW MEXICO.

Carson.—E. W. Loveridge, Taos (WU—Exp. Taos Junction); C. R. Dwire, deputy forest supervisor; Luis P. Martinez, senior clerk.

Canjilon District.—J. L. Hughes, Canjilon (Exp. Chama).

Jicarilla District.—R. L. Ground, Vaqueros (Exp. Dulce).

Questa District.—L. F. Cottam, Questa (Exp. Jarosa).

San Antone District.—T. J. Ground, Ortiz (Exp. Antonito).

Servilleta District.—M. M. Bruhl, Tusas (Exp. Tres Piedras).

Vallecitos District.—E. L. Perry, Vallecitos (Exp. La Madera).

Taos District.—D. M. Barker, Taos (Exp. Taos Junction).

Hallack and Howard Lumber Co. sale—W. J. Perry, scaler, La Madera; E. L. Hamilton, forest assistant.

Coronado.—See Arizona.

Datil.—A. H. Douglas, Magdalena (WU); Robert Munro, national forest examiner; Anna E. Fraser, senior clerk.

Baldwin District.—J. B. Crain, Datil (Exp. Magdalena).

Black Range District.—R. B. Ewing, Fairview (Exp. Engle).

Elk Mountain District.—Albert Yochelson, Datil (Exp. Magdalena).

Frisco District.—J. A. Simmons, national forest examiner, Reserve (Exp. Magdalena).

Jewett District.—Louis Ketcham, Aragon (Exp. Magdalena).

Luna District.—B. S. Rogers, Luna (Exp. Magdalena).

Datil—Continued.

Magdalena District.—S. Q. Garst, Magdalena.

Red Rock District.—R. S. Blatchford, Monticello (Exp. Engle).

Rosedale District.—H. P. Barksdale, Rosedale (Exp. Magdalena).

Tulerosa District.— ————, Aragon (Exp. Magdalena).

Gila.—Frederic Winn, Silver City (WU); L. J. Putsch, forest supervisor; H. Norton Cope, deputy forest supervisor; Warren M. Cox, senior clerk.

Big Burros District.—W. R. Warner, Tyrone.

Black Range District.—J. R. Painter, Kingston (Exp. Lake Valley).

Frisco District.—C. H. Bowen, Buckhorn (Exp. Silver City).

McKinney Park District.—Henry Woodrow, Cliff (Exp. Silver City).

Mimbres District.—J. R. McLure, Mimbres (Exp. Santa Rita).

Mogollon District.—C. L. Warnock, Mogollon (Exp. Silver City).

Pinos Altos District.—C. E. Hulbert, Pinos Altos (Exp. Silver City).

Lincoln.—O. F. Arthur, Alamogordo (WU); W. J. Anderson, national forest examiner; Simeon Strickland, lumberman; Anita P. Kellogg, senior clerk.

Capitan District.—B. A. Hendricks, Lincoln (Exp. Capitan).

Cloudcroft District.—H. G. Smith, Cloudcroft.

Gallinas District.—W. H. Woods, Corona.

Guadalupe District.—R. R. Bell, Queen (Exp. Carlsbad).

Mayhill District.—F. F. McLure, Mayhill (Exp. Cloudcroft).

Ruidoso District.—G. W. Messer, Glencoe (Exp. Capitan).

Weed District.—A. S. Wingo, Weed (Exp. Cloudcroft).

White Mountain-Patos District.—J. A. Brubaker, Capitan.

Sacramento Mountain Lumber Co. sale.—Daniel Felts, Cloudcroft.

Manzano.—Ward Shepard, Albuquerque (WU, P); C. H. Kissam, national forest examiner; Dora M. Morris, senior clerk.

Northern District.—G. H. Cook, Tijeras (Exp. Albuquerque).

Southern District.—L. A. Shartzer, Mountainair.

Mount Taylor District.—A. E. Watson, Grants.

Zuni District.—F. E. Brennan, McGaffey (Exp. Perea).

Santa Fe.—Frank E. Andrews, district forest inspector, Santa Fe (WU, P); L. R. DeCamp, forest supervisor; G. T. Backus, forest examiner; M. J. Pettis, senior clerk.

Chama District.—F. D. Harris, Coyote (Exp. Espanola).

Cochiti District—B. H. Brown, Bland (Exp. Domingo).

Cuba District.—M. F. Pincetl, Senorito (Exp. Albuquerque).

Gallina District.—J. I. Hatch, Gallina (Exp. Espanola).

Mora District.—C. H. Stewart, Gascon (Exp. Las Vegas).

Panchuela District.—J. W. Johnson, Cowles (Exp. Glorieta).

San Miguel District.—D. E. Harbison, San Geronimo (Exp. Las Vegas).

Santa Clara District.—F. V. Plomteaux, Espanola.

Tesuque District.—L. D. Blodgett, Santa Fe.

Santa Fe—Continued.

Pecos Timber sales.—W. T. Doherty, national forest examiner, Pecos (Exp. Glorieta); Fred Merkle, scaler.

Santa Barbara Exchange.—E. W. Hadley (in charge) and T. S. Flournoy, forest assistants, Tres Ritos (Exp. Las Vegas).

Bandelier National Monument.—W. E. Murk, Santa Fe.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

R. H. RUTLEDGE, acting district forester.

PUBLIC RELATIONS.—James E. Scott.

LAW.—Office of the solicitor (Forest Service branch). E. S. French, assistant to the solicitor.

ACCOUNTS.—Homer A. Seip, chief of office and fiscal agent; A. C. Wycoff, district fiscal agent.

OPERATION.—Chas. D. Simpson, assistant district forester; Carl B. Arentson, forest supervisor, executive assistant; R. B. Adams, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—Charles D. Simpson. I. H. Nash, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—W. B. Crites.

FOREST MANAGEMENT.—C. B. Morse, assistant district forester; S. S. Stewart, forest examiner.

PLANTING.—Cottonwood Nursery, N. J. Fetherolf, planting assistant, Sugarhouse, Utah.

GRAZING.—C. N. Woods, assistant district forester; Ernest Winkler, inspector of grazing.

STUDIES.—D. A. Shoemaker, grazing examiner.

LANDS.—R. E. Gery, acting assistant district forester; W. B. Rice, in charge of entry surveys; S. B. Locke, forest examiner, fish and game.

RESEARCH.—F. S. Baker, forest examiner.

ENGINEERING.—J. P. Martin, district engineer; F. J. Ryder, administrative assistant.

MAPS AND SURVEYS.— ———.

Drafting.— ———.

ROADS.—J. P. Martin, H. G. McPheters, R. A. Brown, and O. W. Torgeson, assistants.

WATER POWER.—J. P. Martin.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—Arthur W. Sampson, plant ecologist, in charge.

NATIONAL FORESTS.

ARIZONA.

Kaibab.—J. C. Roak, Kanab, Utah (WU–Exp. Marysvale, Utah); Millie Young, clerk.

Jacob Lake District.—Delmar McCuistion, Kanab, Utah (Exp. Marysville, Utah).

Big Springs District.—Benjamin Swapp, Kanab, Utah (Exp. Marysvale, Utah).

IDAHO.

Boise.—E. Grandjean, district forest inspector in charge, Boise (WU); W. M. Campbell, forest supervisor; Mabel M. Sturgis, senior clerk.

Long Gulch District.—John E. Irby, Lenox (Exp. Mountain Home).

Cottonwood District.—Walter Berry, Barber (Exp. Boise).

Idaho City District.—Harry Heller, Idaho City (Exp. Boise).

Atlanta District.—John D. Selby, Atlanta (Exp. Mountain Home).

Lowman District.—Warren C. Taylor, Lowman (Exp. Banks).

Pine District.— ———, Pine (Exp. Mountain Home).

Graham District.—Floyd P. Howard, Idaho City (Exp. Boise).

Cache.—See Utah.

Caribou.—Earl C. Sanford, Montpelier (WU); Robert W. Strong, deputy forest supervisor; Lucile C. Krogue, senior clerk.

Snake River District.—Jess D. Bedwell, Antelope (Exp. Ririe).

Grays Lake District.—Lewis C. Mathews, Wayan (Exp. Soda Springs).

Freedom District.—Charles A. Spackman, Freedom, Wyo. (Exp. Montpelier).

Auburn District—James B. Bruce, Auburn, Wyo. (Exp. Montpelier).

Soda Springs District.—Arthur Peterson, Georgetown.

Montpelier District.—Camas Nelson, Montpelier.

Challis.—David Laing, Challis (WU); Charles C. Shaw, forest ranger; A. L. Moats, senior clerk.

Challis District.—Willard Frost, Challis (Exp. Mackay).

Clayton District.—John S. Malm, Clayton (Exp. Mackay).

Loon Creek District.—Ned Foster, winter address, Meyers Cove; summer address, Stanley (Exp. Mackay).

Stanley District.—Edgar P. Huffman, Stanley (Exp. Mackay).

Idaho.—Walter G. Mann, McCall (WU, P); Andrew A. Casner, deputy forest supervisor; Mrs. Grace Hoff, senior clerk.

Meadows District.—John W. Merritt, forest guard, New Meadows.

Warren District.—Henry W. May, Warren (Exp. McCall).

Chamberlain District.—Morris Powell, Warren (Exp. McCall).

Lake Fork District.—Charles A. Chitwood, McCall.

Idaho—Continued.

Roseberry District.—Charles M. DeWitt, Roseberry (Exp. Donnelly).

Yellow Pine District.—Frank E. Gray, Yellow Pine (Exp. Cascade).

Big Creek District.—Walter A. Estep, Clover (Exp. McCall).

Lemhi.—C. F. Evans, Mackay (WU); George A. Meyer, senior clerk.

Warm Springs District.—Robert Johnson, Winsper (Exp. Dubois).

Mountain View District.—E. H. Motts, Mackay.

Sulphur Creek District.—L. L. Hammer, May (Exp. Mackay).

Antelope District.—J. L. Phillips, Grouse (Exp. Mackay).

Mackay District.—Carrol C. Pelton, Mackay.

Minidoka.—R. D. Garver, Burley (WU); J. W. Stokes, forest supervisor; C. H. Burrage and D. M. Rustay, forest assistants; Evelyn Ferrin, senior clerk.

Cassia West District.—C. E. Jensen, Rogerson.

Cassia East District.—E. E. Stock, Oakley.

Albion Mountain District.—H. L. Smith, Elba (Exp. Oakley).

Raftriver Division.—J. H. Kroencke, Yost, Utah (Exp. Kelton, Utah.

Black Pine Division.—W. H. Taft, Strevell (Exp. Kelton, Utah).

Sublett Division.—Bert Mahoney, Sublett (Exp. Burley).

Payette.—Guy B. Mains, district forest inspector, Emmett (WU); F. S. Moore, forest supervisor; Francis Wallis, deputy supervisor; A. P. Larson, senior clerk.

West Mountain District.—Arthur Potter, Ola (Exp. Smiths Ferry).

Garden Valley District.—Frank H. Miller, Garden Valley (Exp. Banks).

Deadwood-Bear Valley District.—George E. Russell, Garden Valley (Exp. Banks).

Long Valley District.—H. J. Burr, Cascade.

Penn Basin District.—DeWitt Russell, Cascade.

Middle Fork Salmon District.—Graham E. McConnel, Cascade.

Salmon.—S. C. Scribner, Salmon (WU); E. R. Renner, deputy forest supervisor.

Indianola District.—Carlton F. Clark, Northfork (Exp. Salmon).

Hughes Creek District.—Edward J. Caperon, Northfork (Exp. Salmon).

Salmon District.—R. E. Allan, Salmon.

Forney District.—Allen H. Wheeler, Leesburg (Exp. Salmon).

Lemhi District.—Clarence D. Huestis, Lemhi.

Leadore District.—Don M. Casterlin, Leadore.

Sawtooth.—M. S. Benedict, district forest inspector, Hailey (WU); W. L. Priest, senior clerk.

Greenhorn District.—N. C. Jensen, Hailey.

Flowers District.—A. R. Griffith, Ketchum.

Pole Creek District.—W. H. Horton, Ketchum.

Soldier District.—J. E. Minear, Fairfield.

Shake Creek District.—A. T. Osborn, Featherville (Exp. Mountain Home).

Targhee.—S. W. Stoddard, St. Anthony (WU); John N. Kinney and Lemuel Steele, jr., deputy forest supervisors; Theresa B. Harris, senior clerk.

Spencer District.—Foster Steele, Spencer.

Camas District.—K. C. Allan, Kilgore (Exp. Spencer).

Big Springs District.—D. L. Enteman, Ashton.

Hallie Park District.—Lemuel Steele, jr., deputy forest supervisor, Ashton.

Porcupine District.—Ira Latham, Ashton.

Rapid Creek District.—Ray Pickett, Driggs.

Victor District.—Claud C. Shannon, Victor.

Grandview District.—Francis Moss, Canyon Creek (Exp. Tetonia).

Hawley Gulch District.—Arthur G. Nord, Heise (Exp. Rigby).

Swan Valley District.—T. D. Cowan, Irwin.

Weiser.—L. F. Watts, Weiser (WU); T. V. Pearson, deputy forest supervisor; Irene A. Knight, clerk.

Indian Valley District.—Robert E. Clabby, Indian Valley (Exp. Cambridge).

Council District.—Elmer C. Ross, deputy forest supervisor, Council.

Mann Creek District.—Keith A. Dodge, Weiser, Route No. 2.

Brownlee District.—Elmer E. McGinness, Cambridge.

Hornet District.—Ethel H. Fears, Council.

Bear District.—William J. Rafferty, Bear (Exp. Council).

NEVADA.

Humboldt.—C. E. Favre, district forest inspector, Elko (WU, P); O. W. Mink, deputy forest supervisor; J. A. O'Connell, senior clerk.

Independence District.—Charles E. Butler, Tuscarora (Exp. Elko).

Mountain City District.—L. E. McKenzie, Mountain City (Exp. Elko).

Gold Creek District.—R. M. Matthews, Gold Creek (Exp. Elko).

Jarbidge District.—Chester Olsen, Jarbidge (Exp. Rogerson).

North Ruby District.—A. C. Rohwer, Arthur (Exp. Deeth).

South Ruby District.—J. W. Mink, Jiggs (Exp. Elko).

Paradise Valley District.—Paul L. Travis, Paradise Valley (Exp. Winnemucca).

Quinn River District.—Charles E. Smith, Rebel Creek (Exp. Winnemucca).

Nevada.—Alexander McQueen, Ely (WU); Effie J. McQueen, senior clerk.

Baker District.—Graham S. Quate, Osceola.

Berry Creek District.—Marcus C. Sorenson, McGill.

Currant District.—George E. Moore, Currant.

Spring Valley District.—Lloyd Robison, Aurum.

Toiyabe.—J. W. McGowan, Austin (WU, P); Helene J. Trolson, clerk.

Manhattan District.—A. W. Mayett, Manhattan (Exp. Austin).

Austin District.—R. H. McDougall, Austin.

Potts District.—J. D. Schoeller, Austin.

Reese District.—Carl Stockbridge, Potts (Exp. Austin).

UTAH.

Ashley.—William M. Anderson, Vernal (WU); June P. Allan, senior clerk.

Manila District.—George W. Walkup, Manila (Exp. Green River, Wyo.).

Trout Creek District.—Albert A. Hardy, Vernal.

Vernal District.—H. O. Van Tassell, Vernal.

Lonetree District.—Albert E. Rae, Lonetree, Wyo. (Exp. Carter, Wyo.).

Whiterocks District.—Thomas R. Parry, Whiterocks (Exp. Whiterocks).

Altonah District.—Albert E. Blood, Altonah.

Cache.—E. C. Shepard, district forest inspector, Logan (WU); E. B. Spencer, forest supervisor; Margaret E. Jensen, senior clerk.

Utah District.—H. I. Rice, Logan.

Laketown District.—R. R. Davis, Laketown (Exp. Paris, Idaho).

Smithfield District.—L. C. Smith, Smithfield.

Paris District.—W. S. Averill, Paris, Idaho.

Minkcreek District.—Leroy Lindsay, Minkcreek, Idaho (Exp. Preston, Idaho).

Soda Springs District.—F. O. Rowen, Soda Springs, Idaho.

Pocatello District.—S. R. Justice, Pocatello, Idaho.

Pebble District.—W. H. Campbell, Bancroft, Idaho.

Malad District.—Moses Christensen, Malad, Idaho.

Dixie-Sevier.—William M. Mace, Cedar City (WU); James E. Gurr, deputy forest supervisor; R. T. Forbes, senior clerk.

Enterprise District.—Parley P. Peterson, Enterprise (Exp. Modena).

Pine Valley District.—Samuel A. Macfarlane, Pine Valley (Exp. Modena).

Little Valley District.—William M. Hurst, Panguitch (Exp. Marysvale).

Lowder District.—James E. Gurr, deputy forest supervisor, Cedar City (Exp. Lund).

Harris Flat District.—Frank W. Seaman, Panguitch (Exp. Marysvale).

Fishlake-Fillmore.—J. Raphael, district forest inspector, Richfield (WU); C. A. Mattsson, forest supervisor; A. M. Woodbury, deputy forest supervisor; Edna Baker, property custodian and principal clerk; Myreel Potter, clerk.

Scipio District.—Bert L. Robins, Scipio (Exp. Juab).

Fillmore District.—James Jensen, Fillmore (Exp. Oasis).

Richfield District.—H. M. Christensen, Richfield.

Monroe District.—James H. Baldwin, Monroe (Exp. Elsinore).

Beaver District—Loren Shurtz, Beaver (Exp. Milford).

Gooseberry District.—John Barnard, Salina.

Elkhorn District.—Albert Albertson, Loa (Exp. Sigurd).

Fishlake District.—Rex Barnard, Koosharem (Exp. Sigurd).

Koosharem District.—Allen C. Folster, Monroe (Exp. Elsinore).

Mountain Ranch District.—Joseph L. Thorpe, Salina.

La Sal.—Charles DeMoisy, jr., Moab (WU); Ethel Moore, senior clerk.

La Sal District.—Wilford E. Tangren, La Sal (Exp. Thompson).

Monticello District.—Lewis T. Quigley, deputy forest supervisor, Monticello (Exp. Thompson).

Grayson District.— ———, Blanding (Exp. Thompson).

Manti.—J. W. Humphrey, Ephraim (WU); Luella Christensen, senior clerk.

Mount Baldy District.—Edward P. Cox, Manti.

Clay Springs District.—D. H. Williams, Emery (Exp. Price).

Seely District.—Wells Thursby, Ephraim.

Jose Valley District.—Byron A. Howard, Huntington (Exp. Price).

Canyon Valley District.—Seth H. Ollerton, Mount Pleasant.

Mammoth District.—Orange A. Olsen, Fairview.

Minidoka.—See Idaho.

Powell-Sevier.—George H. Barney, Widtsoe (WU); Addie Gottfredson, senior clerk.

Rabbit Valley District.—J. E. Hickman, jr., Teasdale (Exp. Salina).

Escalante District.—Joseph J. Porter, Escalante (Exp. Marysvale).

John's Valley District.—Wallace H. Adair, Widtsoe (Exp. Marysvale).

East Fork District.—Leland D. Heywood, Panguitch (Exp. Marysvale).

Adams Head District.—Wilford Bentley, Panguitch (Exp. Marysvale).

Uinta.—W. W. Blakeslee, Provo (WU); Wallace M. Riddle, deputy forest supervisor; Emma Evans, senior clerk.

Duchesne District.—Fred O. Johnson, Duchesne.

Springville District.—Parley C. Madsen, Springville; Chas. H. Allred, assistant forest ranger.

Heber District.—Jas. A. Cahill. Heber.

No. 5 District.—Geo. C. Larson, Heber.

Hanna District.—E. J. Adair, Hanna (Exp. Duchesne or Park City).

Payson District.—Wm. L. Huff, Payson.

Nephi District.—A. P. Christiansen, Nephi.

Wasatch.—Dana Parkinson, Salt Lake City (WU, P); David A. Arrivee, forest supervisor; Earl G. Fogelgren, senior clerk.

Big Cottonwood District.—George A. Green, jr., Sandy (Exp. Midvale).

Pleasant Grove District.—Vivian N. West, Pleasant Grove.

Miller Flat District.—William W. Smith, Murray.

Kamas District.—Morgan Parke, Kamas (Exp. Park City).

Bear River District.—Charles H. Zierdt, Evanston, Wyo.

WYOMING.

Teton.—A. C. McCain, district forest inspector, Jackson (WU); E. P. Ellis, senior clerk.

Buffalo District.—Richard H. Ohl, Moran (Exp. Victor, Idaho).

Black Rock District.—Rudolph Rosencrans, Moran (Exp. Victor, Idaho).

Horsetail District.—Felix Buchenroth, Jackson (Exp. Victor, Idaho).

Goosewing District.—Albert Gunther, Kelly (Exp. Victor, Idaho).

Jackson District.—Bruce L. Coulter, Jackson (Exp. Victor, Idaho).

Bryon Flat District.—William H. McKahan, Jackson (Exp. Victor, Idaho).

Stewart District.—Charles S. Horel, Teton (Exp. Victor, Idaho).

Lee District.—Earle W. Harris, Wilson (Exp. Victor, Idaho).

Wyoming-Bridger.—Charles A. Beam, Kemmerer (WU); Ernest E. McKee, deputy forest supervisor; Lewis B. Koch, lumberman; Elsie C. Bayer, clerk.

Kelly District.—George H. Dunn, Cokeville, Wyo.

Snyder Basin District.—Fred Graham, Big Piney (Exp. Opal).

Sherman District.—Irvin W. Smith, Merna (Exp. Opal).

Afton District.—John W. Davis, Afton (Exp. Montpelier, Idaho).

Smoot District.—James T. Moffat, Smoot (Exp. Montpelier, Idaho).

Hoback District.—Albert A. David, Daniel (Exp. Opal).

Kendall District.—Harry A. Cheeseman, Kendall (Exp. Rock Springs).

Willow Creek District.—David R. Hicks, Cora (Exp. Rock Springs).

Fremont District.—Chauncey J. Terry, Pinedale (Exp. Rock Springs).

Boulder District.—Edmond V. Cockins, Boulder (Exp. Rock Springs).

Dutch Joe District.—Martin Murphy, Elkhorn (Exp. Rock Springs).

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, Ferry Building, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

DISTRICT FOREST INSPECTORS.—R. H. Charlton, Los Angeles, Calif.; Angeles, Cleveland, and Santa Barbara. D. N. Rogers, Quincy, Calif.; California, Klamath, Modoc, Shasta, and Trinity. R. L. P. Bigelow, Nevada City, Calif.; Eldorado, Lassen, and Tahoe. M. A. Benedict, Northfork, Calif.; Sequoia, Sierra, and Stanislaus.

LAW.—Office of the Solicitor (Forest Service branch). H. P. Dechant, assistant to the solicitor.

ACCOUNTS.—A. W. Smith, chief of office and fiscal agent; P. A. Tucker, district fiscal agent.

OPERATION.—Robert L. Deering, assistant district forester.

FINANCE.—L. W. Hess, national forest inspector.

PERSONNEL AND INSPECTION.—Paul P. Pitchlynn, national forest examiner.

FIRE.—E. I. Kotok, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. Kotok. G. M. Homans, State forester, Sacramento, Calif., collaborator.

LAW ENFORCEMENT.—C. V. Brereton, national forest examiner.

MAINTENANCE.—E. H. Schmieder.

FOREST MANAGEMENT.—T. D. Woodbury, assistant district forester.

LOGGING ENGINEERING.—Perry Emigh and J. H. Price.

TIMBER SALES.—J. C. Elliott, lumberman.

TIMBER SURVEYS.—O. M. Evans, forest examiner.

FOREST PATHOLOGY.—E. P. Meinecke, consulting pathologist; H. G. Lachmund, Charles D. Meissner, and Willis W. Wagener, assistants; Frank Saltzman, superintendent, Experiment Station.

GRAZING.—C. E. Rachford, assistant district forester.

STUDIES.— ———, grazing examiner.

LANDS.—L. A. Barrett, assistant district forester; George Miller, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. Friedhoff, mineral examiner in charge of field work.

RESEARCH.—S. B. Show, forest examiner; Duncan Dunning, forest examiner.

FOREST PRODUCTS.—C. L. Hill, forest examiner; Carl A. Kupfer, collaborator.

ENGINEERING.—F. H. Fowler, district engineer; J. C. Dort, assistant district engineer.

MAPS AND SURVEYS.—S. W. Wynne; S. N. Stoner, in charge field parties.

Drafting.—H. A. Sedelmeyer.

ROADS.—F. H. Fowler, J. C. Dort, F. D. Bowlus.

Minor Roads, Trails, and Improvements.—S. W. Wynne, C. E. Jordon.

WATER POWER.—F. H. Fowler.

TELEPHONE ENGINEERING.—F. H. Hafley, telephone engineer.

PUBLIC RELATIONS.—R. F. Hammatt, assistant district forester; Paul J. Fair, exhibits.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—Shirley W. Allen, Los Angeles (WU, P); Earl V. Lackey, senior clerk; W. L. Sears, forest ranger.

Pasadena District.—M. V. Mendenhall, deputy forest supervisor, Pasadena. Arroyo Seco Division: Walter D. Marx, Pasadena. Monrovia Division: A. J. Mueller, Sierra Madre. San Antonio Division: A. T. Shay, Camp Baldy (Exp. Upland). San Dimas Division: E. L. Buxton, San Dimas. San Fernando Division: E. B. Hamilton, San Fernando. San Gabriel Division: ———, Azusa. Valyermo Division: L. H. Dorr, Valyermo (Exp. Palmdale). West Fork Division: F. H. Hayward, Mount Wilson (Exp. Pasadena).

San Bernardino District.—F. J. Jeken, deputy forest supervisor, San Bernardino. Iamosa Division: Harry F. Burbank, Cucamonga. Banning Division: C. A. Morris, Banning. Big Bear Valley Division: L. H. Anderson, Pine Knot (Exp. San Bernardino, care Mountain Auto Stage Line). Burnt Mill Division: B. W. Switzer, Little Bear Lake (Exp. San Bernardino, care Mountain Auto Stage Line). Cajon Division: Joseph Hanf, Keenbrook. Glendora Division: H. C. Franklin, Glendora. Lytle Creek Division: A. R. Meyer, Keenbrook. Mill Creek Division: J. H. Sanborn, Mentone. San Bernardino Division: George H. Moore, Del Rose. Skyland Division: O. Chandler, Crestline (Exp. San Bernardino, care Mountain Auto Stage Line).

California.—J. D. Coffman, Willows (WU); B. H. Mace, deputy forest supervisor; Robert J. Settles, senior clerk.

Covelo District.—Douglas Robinson, Covelo (Exp. Dos Rios).

Paskenta District.—M. W. Durham, Paskenta (Exp. Corning).

Stonyford District.—R. G. Stites, Stonyford (Exp. Maxwell).

Upper Lake District.—G. E. Squires, Upper Lake (Exp. Ukiah).

Cleveland.—S. A. Boulden, San Diego (WU); Anna B. Stephens, senior clerk.

Descanso District.—F. B. Van Horn, Descanso (Exp. San Diego).

Palomar District.—A. J. Berg, Aguanga (Exp. Hemet).

San Jacinto District.—C. R. C. Reindorp, Hemet.

Trabuco District.—J. B. Stephenson, El Tora.

Eldorado.—E. F. Smith, Placerville (WU); Margaret Lyon, senior clerk.

Caldor District.—A. W. Hughes, Diamond Springs.

Georgetown District.—R. C. Berriman, Georgetown (Exp. Placerville).

Lake Valley District.—R. R. Bryan, Meyers (Exp. Tallac).

Pacific District.—M. D. Morris, Camino (Exp. Placerville).

Inyo.—Thomas J. Jones, Bishop (WU); Herschel Simpson, forest ranger, in charge of grazing; Julia Greff, senior clerk.

Big Pine District.—Leon J. Cranston, Big Pine.

Mammoth District.—Guy S. Way, Bishop.

White Mountain District.—E. E. Cuff, Bishop.

Klamath.—W. A. Huestis, Yreka (WU); Harry R. Saxton, forest assistant; John R. Berry, scaler; Rollin A. Fairchild, senior clerk.

Happy Camp District.—M. M. Morgan, Happy Camp (Exp. Hornbrook).

Orleans District.—E. M. Sutcliffe, Orleans (Exp. Eureka).

Salmon River District.—E. P. Hickey, Sawyers Bar (Exp. Gazelle).

Scott Bar District.—N. H. Coleman, Scott Bar.

Yreka District.—Perry J. Hill, Yreka.

Lassen.—C. E. Dunston, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Wieslander, forest examiner; Howard E. Marshall, senior clerk; Vance S. Brown, scaler.

Coppervale District.—C. F. Conrad, Red Bluff.

Hat Creek District.—Ira C. Butler, Burney (Exp. Redding).

Magalia District.—W. L. Slater, Magalia.

Mineral District.—William S. Williams, Red Bluff.

Modoc.—W. G. Durbin, Alturas (WU); William S. Brown, deputy forest supervisor; Roscoe Weaver, forest examiner; Leland S. Smith and Fred P. Cronemiller, jr., grazing examiners.

Big Valley District.—A. W. Bramhall, Adin (Exp. Alturas).

Devil's Garden District.—J. C. Davis, Alturas.

Happy Camp District.—Ivan A. Cuff, Canby (Exp. Alturas).

North Warners District.—L. L. Smith, Willow Ranch.

South Warners District.—Ben L. Johnson, Cedarville (Exp. Alturas).

Mono.—See Nevada.

Plumas.—D. N. Rogers, district forest inspector, Quincy (WU); Richard A. Colgan, jr., forest examiner; George R. Orr, lumberman; W. E. Jotter, forest assistant; Richard L. Wiley, senior clerk.

Beckwith District.—A. E. Gould, Blairsden.

Greenville District.—H. F. Wilcox, Greenville (Exp. Crescent Mills).

La Porte District.—William Hayes, La Porte (Exp. Oroville).

Merrimac District.—Fred E. McMurphy, Merrimac (Exp. Oroville).

Milford District.—W. E. Jotter, forest assistant, Milford (Exp. Doyle).

Quincy District.—H. A. Kloppenburg, Quincy.

Santa Barbara.—Thomas W. Sloan, Santa Barbara (WU, P); Clarence Wiley, national forest inspector.

Coast District.—Walter F. Emerick. San Luis Division: Stephen J. Rhyne. Santa Ynez Division: R. G. H. Forsyth, Box 601, Santa Barbara. Zaca Division: J. L. Libeu, Los Olivos.

Santa Barbara—Continued.

Cuyama District.—Jacinto D. Reyes, Ozena (Exp. Maricopa).

Monterey District.—Harry H. Hunt, King City.

Ojai District.—Virgil C. De Lapp, Ojai.

Saugus District.—Ralph S. Williams, Saugus.

Tejon District.—F. E. Dunne, Gorman (Exp. Lancaster).

Sequoia.—F. P. Cunningham, Porterville (WU); William F. Derby, deputy forest supervisor; Lee Slinkard, forest ranger, in charge of grazing; H. L. Phelps, senior clerk.

Breckenridge District.—Westley H. Rhodehamel, Caliente.

Cannell Meadow District.—Ray Stevenson, Isabella (Exp. Caliente).

Deer Creek District.—W. J. Brown, Hot Springs (Exp. Ducor).

Greenhorn District.—Robert J. Beard, Glenville (Exp. Bakersfield).

Kings Canyon and Redwood Mountain Districts.—C. W. Beardsley, Badger (Exp. Cutler).

Mount Whitney District.—George R. Ziegler, Lone Pine.

Tule River District.—Wesley Snider, Springville.

Shasta.—J. R. Hall, Sisson (WU, P); C. A. Chamberlain, deputy forest supervisor, in charge of fire protection; Belknap C. Goldsmith, forest examiner; L. N. Lorenzen, grazing examiner; John S. Everitt, forest assistant; J. B. Fletcher, scaler; F. C. Porter, senior clerk.

McCloud District.—L. E. Overmeyer, McCloud.

Pitt District.—P. D. Lofton, Carbon (Exp. Bartle).

Sacramento District.—Leslie T. Solaro, Sisson.

Scott District.—F. H. Williams, Callahan (Exp. Gazelle).

Squaw Creek District.—A. E. Noren, Winthrop (Exp. Bully Hill).

Trinity District.—J. H. Stone, Coffee (Exp. Redding).

Sierra.—M. A. Benedict, district forest inspector, Northfork (WU Exp. Friant); Burnett Sanford, forest assistant; Mrs. Julia Shinn, senior clerk.

Big Creek District.—C. K. Barker, Big Creek (Exp. Cascada).

Kings River District.—Roy Boothe, Northfork (Exp. Friant).

Mariposa District.—Malcolm McLeod, Usona (Exp. Merced).

Northfork District.—Audie K. Wofford, Northfork (Exp. Friant).

Pine Ridge District.—Frank Price, Auberry.

Stanislaus.—J. V. Wulff, Sonora (WU); J. E. Elliott, deputy forest supervisor; M. R. Brundage, forest assistant; Lucile Weaver, senior clerk.

American Camp District.—P. Y. Lewis, Columbia (Exp. Sonora).

Calaveras District.—C. L. Boothe, Murphy (Exp. Angels Camp).

Center Camp District.—B. F. Tyler, Confidence (Exp. Sonora).

Riverside District.—A. E. Freer, Tuolumne.

Tuolumne District.—F. A. Robinson, Groveland (Exp. Chinese Camp).

Tahoe.—R. L. P. Bigelow, district forest inspector, Nevada City (WU); George W. Lyons, forest examiner; William M. Gracey, senior clerk; Fred J. Dooley, scaler.

Camptonville District.—E. C. Whittum, Camptonville (Exp. Marysville).

Downieville District.—George E. King, Goodyears Bar (Exp. Marysville).

Forest Hill District.—C. W. Sutcliffe, Foresthill (Exp. Colfax).

North Bloomfield District.—E. P. Gleason, North Bloomfield (Exp. Nevada City).

Sierraville District.—J. A. McIntosh, Sierraville (Exp. Loyalton).

Truckee District.—M. F. Hussey, Truckee.

Trinity.—E. V. Jotter, Weaverville (WU); John T. Gray, deputy forest supervisor; Nellie M. Hennessy, senior clerk.

Big Bar District.—H. W. Brannan, Big Bar (Exp. Weaverville).

Hayfork and Hyampom Districts.—Harry Everest, Hayfork (Exp. Weaverville).

Knob District.—Alva Tracy, Knob (Exp. Weaverville).

Lower Trinity District.—F. A. Graham, Willow Creek (Exp. Korbel).

Mad River District.—Iles McNeill, Ruth (Exp. Carlotta).

Stuarts Fork District.—E. W. Leventon, Weaverville.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—William M. Maule, Minden (WU); Hans R. Jepsen, senior clerk.

Alpine District.—W. J. Clark, Markleville, Calif. (Exp. Minden).

Bridgeport District.—H. W. Atcheson, Bridgeport, Calif. (Exp. Minden).

Leevining District.—W. E. Green, Mono Lake, Calif. (Exp. Minden).

Sweetwater District.—C. E. Johnson, Sweetwater (Exp. Minden).

Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester.

PUBLIC RELATIONS.—John D. Guthrie.

LAW.—Office of the Solicitor (Forest Service branch). W. F. Staley, assistant to the solicitor.

ACCOUNTS.—A. H. Cousins, chief of office and fiscal agent; H. J. Weil, district fiscal agent.

OPERATION.—A. O. Waha, assistant district forester; Shirley Buck, national forest inspector.

FIRE PROTECTION.—W. B. Osborne, jr., forest examiner.

IMPROVEMENT.—M. L. Merritt, forest examiner.

TELEPHONE ENGINEERING.—C. M. Allen, telephone engineer.

LAW ENFORCEMENT.—T. M. Talbott, national forest examiner.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. Chapler, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. Chapler. F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. Whitney.

FOREST MANAGEMENT.—Fred Ames, assistant district forester.

TIMBER SALES.—Thornton T. Munger, forest examiner.

LOGGING ENGINEERING.—Bruce E. Hoffman, logging engineer; Geo. L. Drake, and B. F. Heintzleman, forest examiners.

CHECK SCALING.—E. C. Erickson, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. Conover and George A. Bright, forest examiners.

INSECT CONTROL.—A. J. Jaenicke, forest examiner.

FOREST PATHOLOGY.—John S. Boyce, consulting pathologist.

PLANTING AND FOREST INVESTIGATIONS.—J. F. Kümmel, W. H. Leve, and R. H. Weidman, forest examiners.

GRAZING.—E N. Kavanagh, assistant district forester; J. L. Peterson, grazing examiner.

STUDIES.—D. C. Ingram, grazing examiner.

LANDS.—C. J. Buck, assistant district forester.

CLAIMS.—W. M. H. Woodward, mineral examiner.

LAND CLASSIFICATION.—A. H. Wright and Wellman Holbrook (Alaska), national forest examiners.

LAND EXCHANGES.—Ryle Teed and Asher Ireland, national forest examiners.

ENGINEERING.—Philip H. Dater, district engineer; D. V. Stroop, assistant district engineer.

MAPS AND SURVEYS.—H. D. Foster, forest examiner.

Entry Surveys.—George W. Root.

ROADS.—Philip H. Dater, Cecil A. Lord.

WATER POWER.—E. W. Kramer (temporarily on detail from district 1).

PRODUCTS.—W. H. Gibbons, forest examiner; C. W. Gould, forest examiner, Portland; C. W. Zimmerman and H. C. Stinson, engineer and assistant engineer in forest products, Seattle.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. Flory, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); Louis King, special fiscal agent, Ketchikan. C. T. Beach, forest supervisor, Cordova (WU, P); L. C. Pratt, senior clerk.

Cordova District.—W. J. MacDonald, deputy forest supervisor, Cordova.

Katalla District.—O. A. Strand, Katalla.

Seward District.—G. C. Haneman, Seward.

Tongass.—C. H. Flory, Ketchikan (SC, U. S. A., WU); Charles T. Gardner, forest supervisor, Ketchikan; B. F. Heintzleman and Robert A. Zeller, forest examiners; Marion E. Carpenter, senior clerk.

Ketchikan District.—W. J. Jones, deputy forest supervisor, Ketchikan.

Petersburg District.—J. L. MacKechnie, deputy forest supervisor, Petersburg.

Juneau District.—J. P. Williams, Juneau.

Sitka District.—George H. Peterson, deputy forest supervisor, Sitka.

Craig District.—H. E. Smith, Craig.

OREGON.

Cascade.—N. F. Macduff, Engene (WU, P); Harvey E. Vincent, deputy forest supervisor; E. H. Hall, forest examiner; W. E. Naylor, senior clerk.

McKenzie Bridge District.—S. L. Taylor, deputy supervisor, McKenzie Bridge.

West Boundary District.—C. B. McFarland, Landax.

Willamette District.—C. R. Jones, Oakridge.

Crater.—H. B. Rankin, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner; E. V. Cook, senior clerk; J. D. Holst and George H. West, scalers.

Rogue River District.—A. T. Poole, Trail.

Butte Falls District.—E. C. Peachey, Butte Falls.

Dead Indian District.—W. L. Jones, Medford.

Applegate District.—Lee C. Port, Jacksonville.

Deschutes.—H. L. Plumb, Bend (WU, P); W. J. Sproat, forest examiner; F. V. Horton, grazing examiner; J. W. Collette, senior clerk.

Sisters District.—P. A. South, Sisters.

Bend District.—G. A. Howard, Bend.

La Pine District.—Burton Oney, La Pine.

Crescent District.—R. A. Snow, Crescent.

Fort Rock District.—Roy Mitchell, Fort Rock.

Fremont.—Gilbert D. Brown, Lakeview (WU Reno, Nev., P).

Warner District.—P. V. Ingram, Lakeview.

Dry Lake District.—Lawrence Frizzell, Lakeview.

Bly District.—Norman C. White, Bly.

Paisley District.—Jason S. Elder, Paisley.

Silver Lake District.—William A. La Sater, Silver Lake.

Klamath.—See California.

Malheur.—Wm. W. Cryder, John Day (WU—Exp. Baker).

Crane Prairie District.—T. M. Ray, Prairie City.

Crow Flat District.—Robert Bennett, Canyon City.

Bear Valley District.—J. B. McEntire, Logdell.

Hyiu District.—F. V. Bradford, Long Creek.

Ochoco.—V. V. Harpham, Prineville (WU, PT, & T); Hattie Goodnight, senior clerk.

Maury Mountain District.—J. O. F. Anderson, Post.

Mill Creek District.—W. A. Donnelly, Prineville.

Pisgah District.—G. C. Blake, Mitchell.

Cold Spring District.—Ralph Elder, Ochoco.

Beaver Creek District.—C. S. Congleton, Paulina.

Snow Mountain District—E. W. Donnelly, Suplee.

Oregon.—T. H. Sherrard, district forester inspector, Portland (WU, P); Carl B. Neal, forest supervisor; A. G. Jackson and W. J. Paeth, forest examiners; M. V. Livingston, senior clerk.

Hood River District.—S. C. Walters, Mount Hood.

Columbia District.—M. J. Brown, Cascade Locks.

Bull Run District.—C. L. Henson, Welches.

Summit District.—John A. Calverly, Rhododendron.

White River District.—T. R. Brown, Friend.

Clackamas District.—R. T. Carter, Estacada.

Santiam.—C. C. Hall, Albany (WU, P); Ivy I. Boeck, senior clerk.

Detroit District.—H. G. White, Detroit.

Cascadia District.—R. A. Elliott, Cascadia.

Siskiyou.—E. H. MacDaniels, Grants Pass (WU, P); H. A. Haefner, forest examiner; F. I. Abrams, senior clerk; S. A. Moore, scaler.

Port Orford District.—M. C. Page, Port Orford.

Agness District.—A. F. Van Deventer, Agness.

Galice District.—J. P. DeWitt, Almeda.

Page Creek District.—M. M. Lewis, Takilma.

Chetco District.—J. F. Campbell, Brookings.

Gasquet District.—G. S. Case, Waldo.

Siuslaw.—Ralph S. Shelley, Eugene (WU, P); A. R. Wilcox, forest examiner; Mildred G. Sinnott, senior clerk.

Hebo District.—L. E. Garwood, Hebo.

Waldport District.—M. S. Durbin, Waldport.

Florence District.—E. S. Kerby, Mapleton.

Gardiner District.—D. G. Knox, Gardiner.

Umatilla.—John C. Kuhns, Pendleton (WU, P); R. A. Bottcher, deputy forest supervisor; George Donaldson, scaler.

Spray District.—C. R. Langdon, Spray.

Heppner District.—C. L. Keithley, Heppner.

Gurdane District.—S. R. Woods, Albee.

Ukiah District.—W. W. Allison, Ukiah.

Albee District.—P. W. Robbins, Pilot Rock.

Umpqua.—W. F. Ramsdell, Roseburg (WU, P); George Bonebrake, deputy forest supervisor; W. C. Keyes, senior clerk.

Bohemia District.—E. S. Holderman, Disston.

Glide District.—U. F. McLaughlin, Glide.

Tiller District.—H. U. Cochran, Tiller.

Diamond Lake District.—O. C. Hauser, Peel.

Wallowa.—Nelson J. Billings, Wallowa (WU); C. H. Thorp, senior clerk.

Bear Creek District.— ———.

Joseph District.—J. F. McClain, Joseph.

Imnaha District.—Robert W. Flournoy, Imnaha.

Snake River District.—R. H. Harper, Imnaha.

Chesnimnus District.—P. N. Stephenson, Chico.

Sled Springs District.—L. A. Carpenter, Enterprise.

Wenaha.—See Washington.

Whitman.—R. M. Evans, district forest inspector; I. E. Jones, forest supervisor, Baker (WU); J. F. Irwin, forest supervisor; C. W. Waterbury, lumberman; Walter L. Dutton, grazing examiner; Harry Gisborne, forest assistant; Otto A. Zimerli, senior clerk; F. W. Mattson, scaler.

Sumpter District.—Charles F. Groom, Sumpter.

North Powder District.—A. G. Angell, North Powder.

Desolation District.—L. O. Case, Ukiah.

Austin District.—Dan W. Fisk, Austin.

Burnt River District.—Lloyd M. Judy, Unity.

Pine District.—George W. Miller, Halfway.

Eagle District.—Clyde O. Bloom, Medical Springs.

Grande Ronde District.—W. D. Foreman, Cove.

WASHINGTON.

Chelan.—P. T. Harris, Okanogan (PT & T–Exp. Wenatchee); G. E. Mitchell, deputy forest supervisor, Chelan.

Stehekin District.—E. O. Blankenship, deputy supervisor, Stehekin.

Chelan District.—F. W. Wehmeyer, Chelan.

Entiat District.—James McKenzie, Entiat.

Columbia.—T. H. Brundage, district forest inspector, Portland, Oreg. (WU, P); H. M. White, national forest inspector; Zella A. Zeigler, senior clerk.

Mount Adams District.—J. M. Mann, Guler.

Wind River District.—Axel Erickson, Carson.

Spirit Lake District.—C. W. Welty, ———.

Colville.—C. C. Reid, Republic (WU, P); Lawrence B. Pagter, forest examiner; T. F. Barrett, senior clerk.

Marcus District.—A. W. Eastman, Marcus.

Danville District.—Arthur Radigan, Danville.

Republic District.—L. L. Hougland, Anglin.

Wauconda District.—E. W. Wheeler, Wauconda.

Tonasket District.—R. E. Foote, Tonasket.

Okanogan.—P. T. Harris, Okanogan (PT & T–Exp. Wenatchee); W. A. Steiner, senior clerk.

Loomis District.—H. S. Albertson, Loomis.

Conconully District.—R. B. Pierpont, Conconully.

Sweat Creek District.—R. E. Grantham, Okanogan.

Squaw Creek District.—W. F. Burge, R. F. D., Okanogan.

Alder Creek District.—J. G. Burghardt, Twisp.

Eight Mile District.—A. R. Tyler, Winthrop.

Olympic.—R. L. Fromme, district forest inspector; O. F. Erickson, forest supervisor, Olympia (WU, P); A. A. Griffin, forest examiner; Clarence M. Adams, senior clerk; Earl H. McArdle, scaler, Sequim.

Port Angeles District.—Chris Morgenroth, deputy forest supervisor, Port Angeles..

Quilcene District.—Joseph W. Fulton, Quilcene.

Hoodsport District.—R. A. Hilligoss, Hoodsport.

Quinault District.—D. G. Hartsuck, Olsen.

Rainier.—G. F. Allen, Tacoma (WU, P); E. J. Fenby and Geo. E. Griffiths, deputy forest supervisors; F. B. Kellogg, forest examiner.

Lower Cowlitz District.—John Kirkpatrick, Randle.

Upper Cowlitz District.—William Sethe, Lewis.

Tilton District.—Jules Hagon, Morton.

Nisqually District.—William McCullough, Ashford.

Carbon District.—R. J. O'Farrell, scaler, Fairfax.

Naches District.—H. Croxford, Nile.

Tieton District.—Mark Brunn, R. F. D., Yakima.

Snoqualmie.—W. G. Weigle, district forest inspector; Lewis A. Treen, jr., forest supervisor, Seattle (WU, P); Edward J. Hanzlik, forest examiner; E. E. Whitaker, senior clerk; L. D. Hurt, scaler.

Darrington District.—J. R. Bruckart, Darrington.

Silverton District.—R. M. Filloon, Silverton.

Skykomish District.—George E. Sawyer, Skykomish.

Lester District.—J. W. Lundin, Lester.

Washington.—C. H. Park, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.

North Fork Nooksack District.—G. C. Burch, Glacier.

Baker River District.—D. E. Gilman, Concrete.

Finney Creek-Suiattle District.—Dick Sullivan, Darrington.

Skagit River District.—Thomas Thompson, Marblemount.

Wenaha.—John C. Kuhns, Walla Walla (WU); I. M. Cooley, senior clerk.

Asotin District.—Albert Baker, Pomeroy.

Touchet District.—W. H. Kendall, Dayton.

Walla Walla District.—F. W. Kendall, Walla Walla.

Grande Ronde District.—Geo. B. Clisby, Duncan.

Wenatchee.—A. H. Sylvester, Wenatchee (WU); F. B. Lenzie, grazing examiner; E. L. Springer, senior clerk; Francis A. Varo, scaler.

Lake Wenatchee District.—R. E. Nickles, Telma.

Chiwaukum District.—Oscar F. Bergman, Winlock.

Leavenworth District.—John S. Brender, Leavenworth.

Cashmere District.—Lee F. Chartrand, Leavenworth.

Liberty District.—S. A. Blankenship, Cle Elum.

Easton District.—H. C. Blankenship, Easton.

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. Kerrick, district fiscal agent.

OPERATION, ENGINEERING, } H. O. Stabler, assistant district forester, John W. Fox, assistant engineer.

FOREST MANAGEMENT.—I. F. Eldredge, assistant district forester.

LOGGING ENGINEERING.—E. V. Clark.

LANDS.—Rudolph Dieffenbach, forest inspector.

LAND EXCHANGE.—W. F. Hill, national forest examiner.

ACQUISITION.—Rudolph Dieffenbach, forest inspector; E. D. Fletcher, national forest examiner.

LAW.—A. H. McConville, assistant to the solicitor, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va.; Alfred S. Grigg, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.; John W. Van Hoy, Mena, Ark.

NATIONAL FORESTS.

ALABAMA.

Alabama.—Burley M. Lufburrow, acting forest supervisor, Moulton (WU).

Alabama District.—H. J. McDowell, Landersville.

ARKANSAS.

Arkansas.—Charles A. Plymale, Hot Springs (WU); W. E. White, deputy forest supervisor; J. A. Bateman and H. A. Regan, national forest examiners; Eunice L. Brown, clerk.

Womble District.—Abner Casey, Womble.

Jessieville District.—George Howell, Jessieville (Exp. Hot Springs).

Arkansas—Continued.

Umphers District.—Charles Christian, Rover (Exp. Plainview).

Cold Springs District.—George W. Casey, Cardiff (Exp. Waldron).

Oden District.—T. E. Hale, Oden (Exp. Womble).

Eagleton District.—S. C. Payne, Rich Mountain.

Shady District.—Guy Cox, Shady (Exp. Mena).

Ozark.—Ben F. Vaughan, Russellville (WU); R. C. Huey and William P. Dale, national forest examiners; T. T. Hall, clerk.

Sylamore District.—Hugh R. Moore, Mountain View (Exp. Sylamore).

Bayou District.—J. W. McPherson, Okay (Exp. Atkins).

Pleasant Hill District.—Grover C. Page, Lurton (Exp. Russellville).

Piney District.—James A. Mason, Fort Douglas (Exp. Clarksville).

White Rock District.—Charles W. Fritts, Cass (Exp. Ozark).

FLORIDA.

Florida.—L. L. Bishop, district forest inspector, Pensacola (WU, P); Eva Berlin, clerk.

Camp Pinchot District.—E. R. McKee, Valparaiso (Exp. Crestview).

East Bay District.—Otis B. Fort, Holly.

Mossyhead District.—J. E. Clark, Mossyhead.

Bayou District.—G. B. Anchors, Valparaiso (Exp. Crestview).

Ocala District.—C. H. Rogers, deputy forest supervisor, Lynne (Exp. Ocala).

GEORGIA.

Cherokee.—See Tennessee.

Nantahala.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. Fritz, Gorham (WU, P); H. R. Currier, deputy forest supervisor; H. S. Davis, forest examiner; S. H. Thompson, forest examiner; K. E. Kimball, national forest examiner; F. A. Gardner, examiner of surveys; Helen Brooks, clerk.

Gorham District.—Erich F. Stuewe, forest guard, Gorham.

Twin Mountain District.—Arthur G. Brown, forest guard, Pierce Bridge.

Kilkenny District.—Walter E. Chatfield, forest guard, Gorham.

Bartlett District.—G. E. Beale, jr., Bartlett.

Woodstock District.—George E. Spinney, Woodstock.

NORTH CAROLINA.

Cherokee.—See Tennessee.

Nantahala.—R. W. Shields, Franklin (WU); S. M. Shanklin, deputy forest supervisor; C. E. Beaumont, forest examiner; W. N. Sloan and A. A. Riemer, examiners of surveys; Mamie B. Horsley, clerk.

Clayton District.—R. C. Nicholson, Clayton, Ga.

Highlands District.—J. E. Potts, Highlands.

Nantahala District.—R. C. Brown, Franklin.

Pisgah (includes Boone National Forest, north half of Nantahala Purchase Area, and Pisgah National Forest.)—Verne Rhoades, district forest inspector, Asheville (WU, P); Ira T. Yarnall, forest examiner; James Denman, examiner of surveys; Belle M. Morrison, clerk.

Davidson River District.—Leory O'Kelley, Pisgah Forest.

Bent Creek District.— ———.

Big Ivy District.—J. O. Brigman, Pisgah Forest.

Catawba District.—J. H. Young, Old Fort.

Buck Creek-South Toe District.—George M. Bird, Garden City (Exp. Marion).

Wilson Creek District.—Monroe Coffey, Edgemont.

Unaka.—See Tennessee.

OKLAHOMA.

Wichita.—Frank Rush, Cache (WU); May Rush, clerk.

Wichita District.—Guy C. Wallace, Cache.

PORTO RICO.

Luquillo.—E. Murray Bruner, forest examiner, Rio Piedras.

SOUTH CAROLINA.

Nantahala.—See North Carolina.

TENNESSEE.

Cherokee.—H. G. Spahr, Athens (WU); Rezin E. Pidgeon, examiner of surveys; Dorothy C. Dobbs, clerk.

Lower Toccoa District.—D. E. Edmondson, Margret, Ga. (Exp. Blue Ridge, Ga.).

Upper Toccoa District.—W. A. Woody, Sarah, Ga. (Exp. Blue Ridge, Ga.)

West Ocoee District.—W. C. Chable, assistant forest ranger, Doogan, Ga. (Exp. Benton).

East Ocoee District.—W. P. Duncan, Postelle (Exp. Ducktown).

Hiwassee District.—Leland Fouts, McFarland.

Unaka.—H. L. Russell, Johnson City (WU); W. E. Hedges, national forest examiner; C. F. Muzzey, examiner of surveys; Bessie M. Thompson, clerk.

Damascus District.—C. S. Dunn, Damascus, Va.

Shady District.—G. S. Blevens, Crandull, R. F. D. (Exp. Damascus, Va.).

Carter District.—G. W. Cole, Carter.

Erwin District.—R. T. Reed, Erwin.

VIRGINIA.

Natural Bridge.—J. H. Fahrenbach, Buena Vista (WU); H. M. Sears, forest examiner; A. R. Kinney and P. G. Jenney, examiners of surveys; S. B. Helms, clerk.

Glenwood District.—J. W. McNair, Natural Bridge Station.

Pedlar District.—Thomas A. Wilson, Buena Vista.

Shenandoah.—S. H. Marsh, district forest inspector, Harrisonburg (WU); W. H. Stoneburner, deputy forest supervisor, Edinburg (WU); E. R. Conrad, examiner of surveys; Helen W. Gordon, clerk.

Deerfield District.—H. B. Eye, Deerfield.

North River District.—J. William Bowman, Bridgewater.

Potomac District.—Arthur A. Wood, Lost River, W. Va.

Massanutten District.—John W. Crisman, assistant forest ranger, Edith.

Unaka.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. Johnson, Elkins (WU); W. H. Sullivan, examiner of surveys.

Dry Fork District.—Charles E. Long, Gladwin.

Shenandoah.—See Virginia.

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